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Service Manual

ORDER NO.
RRV3639

INTEGRATED AMPLIFIER

A-A6-S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
A-A6-S	WAXCN5	AC 220 V	

This service manual should be used together with the following manual(s):

Model	Order No.	Remarks
A-A9-J/MYXCN5	RRV3515	

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
ⓒ**PIONEER CORPORATION 2007**

T-ZZV AUG. 2007 Printed in Japan

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*
- *Nos. indicate the pages and Nos. in the service manual for the base model.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10^1 → 561 ····· RD1/4PU 5 6 1 J
47k Ω → 47 x 10^3 → 473 ····· RD1/4PU 4 7 3 J
0.5 Ω → R50 ····· RN2H R 5 0 K
1 Ω → 1R0 ····· RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 x 10^1 → 5621 ····· RN1/4PC 5 6 2 1 F

1.1 CONTRAST TABLE

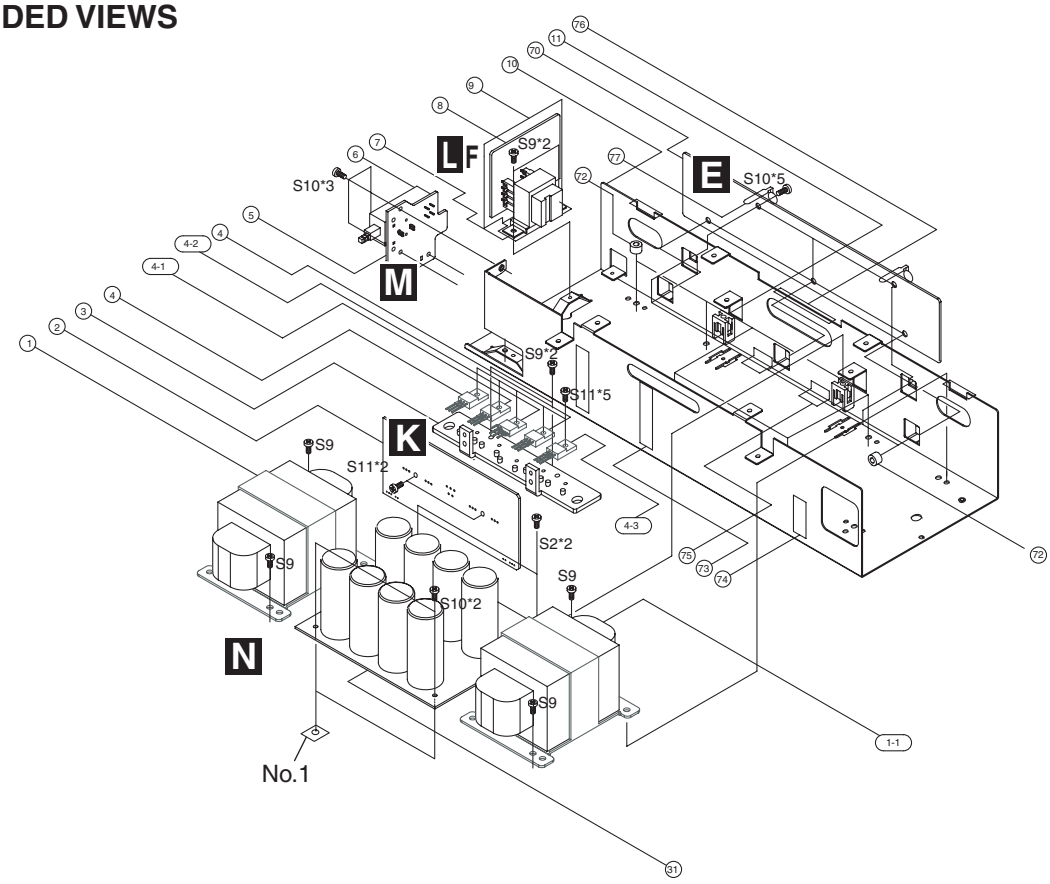
A-A6-J/MYXCN5 and A-A6-S/WAXCN5 are constructed the same except for the following:

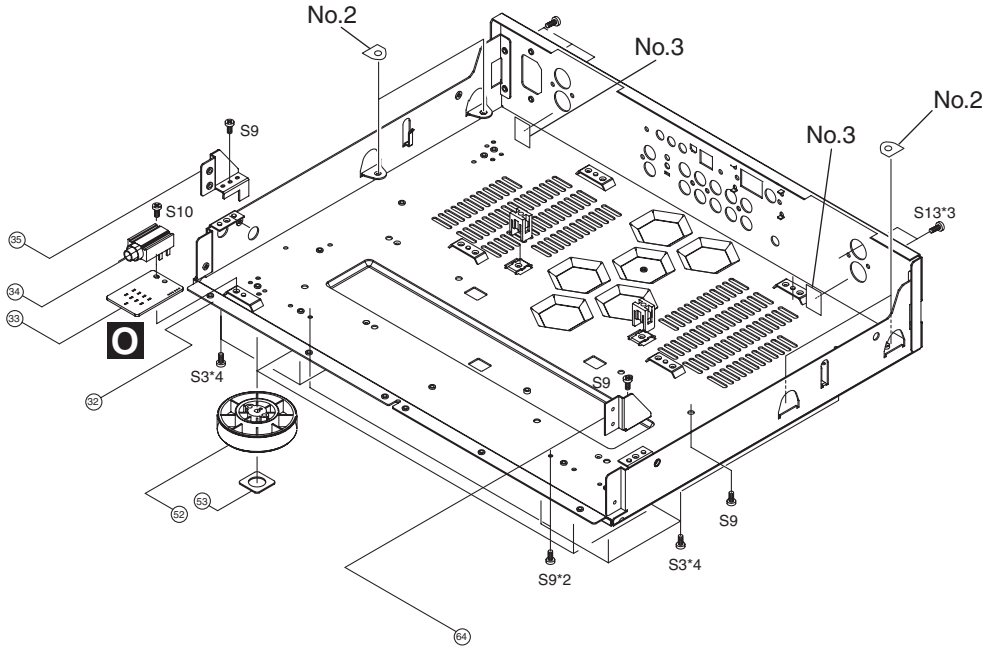
Mark	No.	Symbol and Description	A-A6-J/MYXCN5	A-A6-S/WAXCN5	Remarks
		PCB ASSEMBLIES			
NSP		1..PCB TOTAL ASSY	7025HA0603010-IL	7025HA0603050-IL	
		2..SUB TRANS ASSY	702806535A010-IL	702806535A050-IL	
NSP		1..PCB TOTAL ASSY	7025HA0603011-IL	7025HA0603051-IL	Constructed same.
		PACKING SECTION			
⚠	P11-1	Power Cable	L068250160020-IL	L068250100050-IL	
	P11-2	Remote Control	8300747200010-IL	8300747400010-IL	
	P11-5	Operating Instructions	5707000000120-IL	Not used	
		(English/French/German/Dutch/Italian/Spanish)			
	P11-5	Operating Instructions (Chinese)	Not used	5707000000670-IL	
	P11-8	Box, Gift	6007210930010-IL	6007210930060-IL	
NSP	P11-9	Warranty Card	ARY7065	ARY7046	
	P11-10	Battery Cover	AZN8024	AZN8025	
	P11-11	Label (WEEE)	ARW7322	Not used	
		Polyethylene Bag	Not used	6330210302000-IL	
		EXTERIOR SECTION			
⚠	P14-1	Trans Main L	8200660550340-IL	8200660550380-IL	
⚠	P14- 1-1	Trans Main R	8200660550390-IL	8200660550430-IL	
	P14-14	Cabinet Top Cover	3007210796000-IL	3007210796010-IL	
	P14-15	Knob Volume	5088211388000-IL	5088211388100-IL	
	P14-16	Knob Input	5088211368000-IL	5088211368100-IL	
	P14-18	Panel Front L	3067212788000-IL	ANB7446	
	P14-21	Lens Remocon	3710210683000-IL	3710210683100-IL	
	P14-23	Panel Front R	3067212808000-IL	ANB7447	
	P14-24	Frame Panel	3217211311000-IL	3217211311100-IL	
	P14-25	Knob Power	5087211391000-IL	5087211391010-IL	
NSP	P14-32	Chassis Main & Back	3207212016000-IL	3207212016040-IL	
	P14-52	Foot	4000210391000-IL	4007210391000-IL	
	P14-S4	Screw	1500040103P41-IL	1500040104P41-IL	
NSP		Cap	4507210218000-IL	Not used	
NSP		Cap	4507210238000-IL	Not used	
		Sheet	5227000000240-IL	Not used	
		Sheet	Not used	1210210502000-IL	No.1
		Sheet	Not used	1210210512000-IL	No.2

Mark	No.	Symbol and Description	A-A6-J/MYXCN5	A-A6-S/WAXCN5	Remarks
		Sheet	Not used	1210210522000-IL	No.3

Notes : The number in the Remarks column correspond to the numbers on "EXPLODED VIEWS".
For PCB assemblies, Refer to "1.2 CONTRAST OF PCB ASSEMBLIES".

■ EXPLODED VIEWS





1.2 CONTRAST OF PCB ASSEMBLIES

LF SUB TRANS ASSY

702806535A010-IL and 702806535A050-IL are constructed the same except for the following:

Mark	Symbol and Description	702806535A010-IL	702806535A050-IL
⚠	T801	8200280150330-IL	8200280150370-IL
	CN804	L000351040100-IL	Not used
	CN810 (same position as CN804)	Not used	L000351040100-IL

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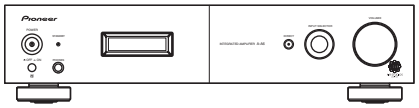

A-A9-J

ORDER NO.
RRV3515

INTEGRATED AMPLIFIER

A-A9-J
A-A6-J

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
A-A9-J	MYXCN5	AC 220 V to 230 V	
A-A6-J	MYXCN5	AC 220 V to 230 V	

For details, refer to "Important Check Points for good servicing".

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T-ZZK DEC. 2006 printed in japan

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

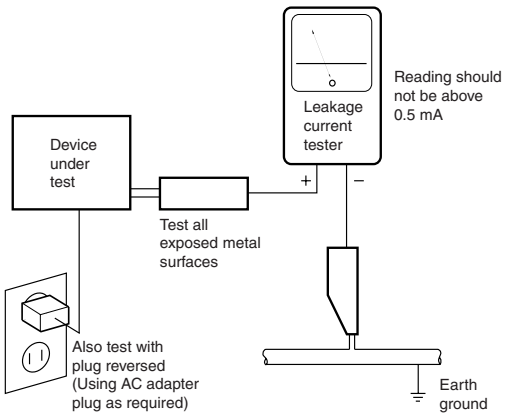
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Leakage current tester
Reading should not be above 0.5 mA
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

LITHIUM BATTERY NOTICE

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

When replacing the lithium batteries, follow the note below. Dispose of the used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.

The battery used in this device may present a fire or chemical hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace only with the same Part Number. Use of another battery may present a risk of fire or explosion.

Note : The lithium battery installation position is shown in the exploded views.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SPECIFICATIONS

Amplifier section

Power output specification is for when power supply is 230V.

Continuous power output
(both channels driven at 20 Hz to 20 kHz)

THD 0.2%.....60 W + 60 W : A6 model
THD 0.2%.....45 W + 45 W : A6 model
THD 0.2%.....70 W + 70 W : A9 model
THD 0.2%.....55 W + 55 W : A9 model

DIN Continuous power output (both channels driven at 1 kHz)

THD 1.0%, 4Ω.....60 W + 60 W : A6 model
THD 1.0%, 8Ω.....45 W + 45 W : A6 model
THD 1.0%, 4Ω.....73 W + 73 W : A9 model
THD 1.0%, 8Ω.....53 W + 53 W : A9 model

Total harmonic distortion**

20 Hz to 20 kHz, 25 W, 8Ω.....0.05%*

** Measured with DIRECT button switched on.*
*** Measured by Audio Spectrum Analyzer*

Audio section

Input (Sensitivity/Impedance)

CD, TAPE, TUNER, AUX.....200 mV/47 kΩ
PHONO (MM).....2.8 mV/47 kΩ
PHONO (MC).....0.3 mV/100 kΩ : A9 model

Frequency Response

CD, TAPE, TUNER, AUX.....5 Hz to 100 kHz $^{+0}_{-3}$ dB
PHONO (MM).....20 Hz to 20 kHz ± 0.2 dB
PHONO (MC).....20 Hz to 20 kHz ± 0.3 dB : A9 model

PHONO (MM) overload level

1 kHz, THD 0.2%.....60 mV

PHONO (MC) overload level

1 kHz, THD 0.2%.....6 mV : A9 model

Output (Level/Impedance)

TAPE REC.....200 mV/1 kΩ

Tone Control

Bass..... ±10 dB (100 Hz)
Treble..... ±10 dB (10 kHz)

Signal-to-Noise Ratio

CD, TAPE, TUNER, AUX (200 mV input).....103 dB
PHONO (MM, 5 mV input).....80 dB
PHONO (MC, 0.2 mV input).....70 dB : A9 model

Signal-to-Noise Ratio (DIN, continuous power/50 mW)

CD, TAPE, TUNER, AUX.....91 dB/65 dB
PHONO (MM, 5 mV input).....68 dB/60 dB
PHONO (MC, 0.2 mV input).....62 dB/57 dB : A9 model

Miscellaneous

Power requirement
.....AC 220 V to 230 V, 50 Hz/60 Hz
Power Consumption.....140 W : A6 model
In standby.....0.5 W : A6 model
Power Consumption.....200 W : A9 model
In standby.....0.6 W : A9 model
Weight (without package).....10 kg : A6model
Weight (without package).....1.5 kg : A9 model
Dimensions.....420 mm (W) × 100 mm (H) × 359 mm (D) : A6 model
Dimensions.....420 mm (W) × 100 mm (H) × 369 mm (D) : A9 model

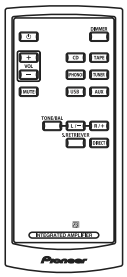
Furnished parts

Remote control.....1
Lithium battery (CR2025).....1
Power cable.....1
Warranty card.....1
Operating instructions.....1

Specifications and the design are subject to possible modifications without notice, due to improvements.

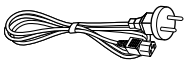
● Accessories

• Remote Control Unit
(A-A9-J : 8300746900010-IL)
(A-A6-J : 8300747200010-IL)



• Lithium Battery
(CR2025)

• Power Cable
(L068250160020-IL)



2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
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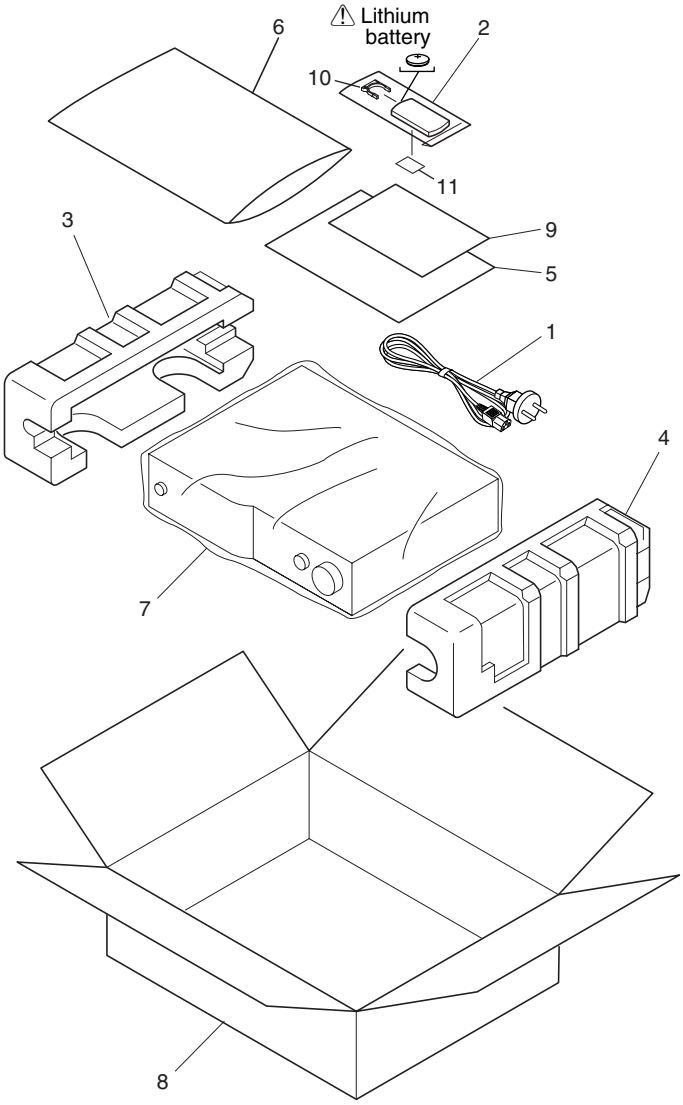
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

2.1 A-A9 model

2.1.1 PACKING (A-A9)

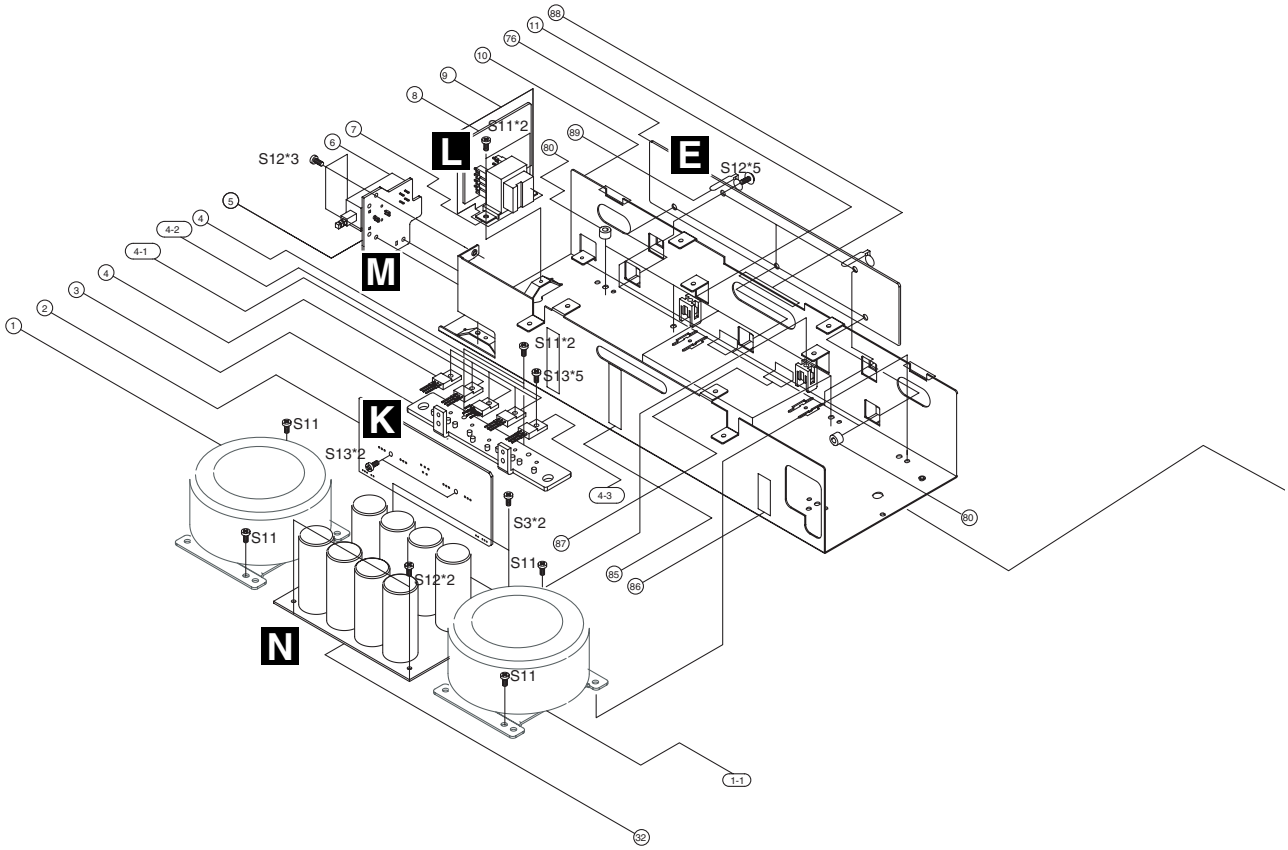


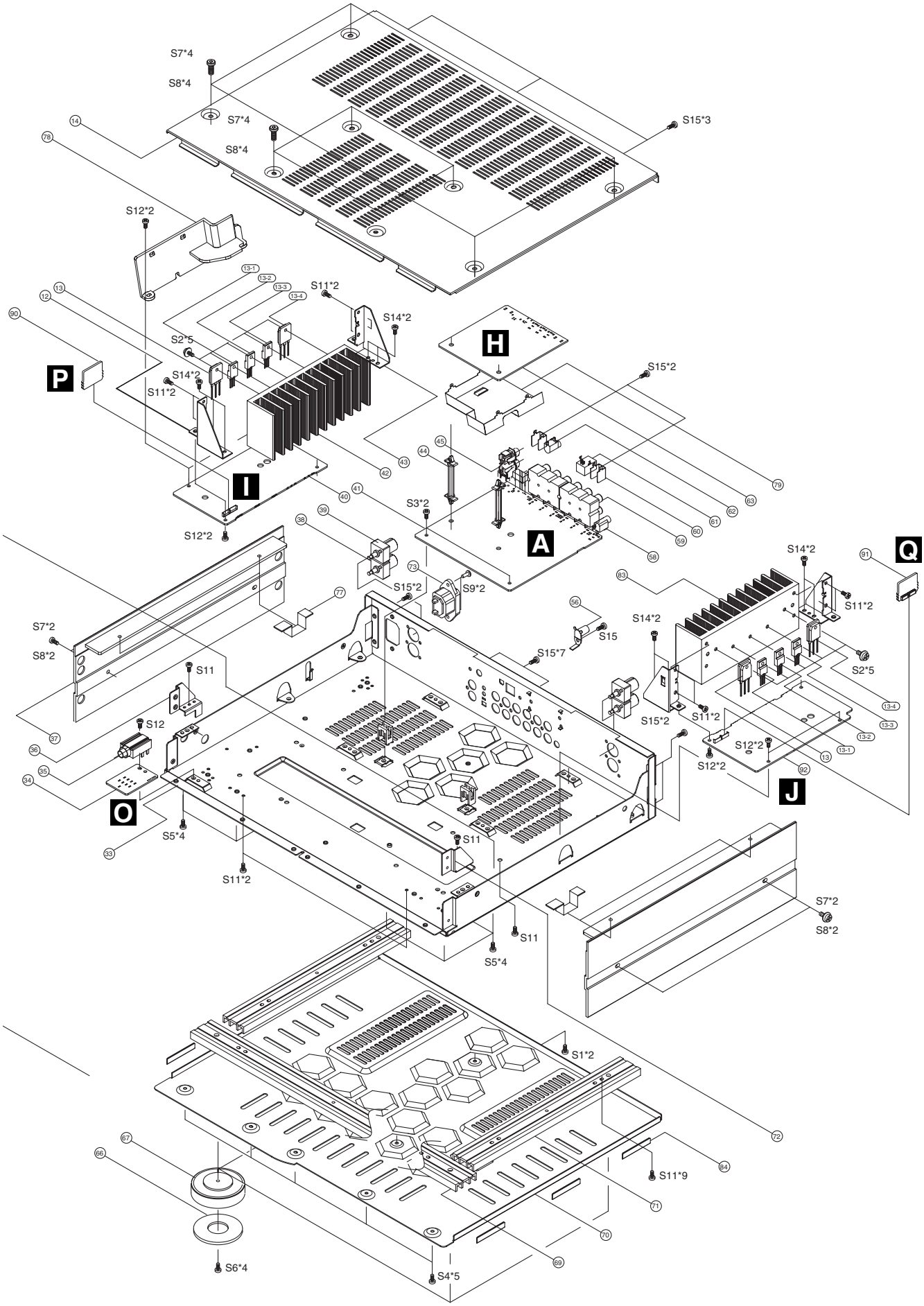
PACKING (A-A9)

Mark	No.	Description	Part No.
⚠	1	POWER CABLE	L068250160020-IL
	2	REMOTE CONTROL	8300746900010-IL
	3	CUSHION,SNOW L	6230211534000-IL
	4	CUSHION,SNOW R	6230211544000-IL
	5	OPERATING INSTRUCTIONS (English/French/German/Dutch/Italian/Spanish)	5707000000170-IL
NSP	6	POLY BAG	6337000240010-IL
	7	PE,SHEET	6327040022012-IL
	8	BOX,GIFT	6007210940010-IL
NSP	9	WARRANTY CARD	ARY7065
	10	BATTERY COVER B	AZN8024
	11	LABEL (WEEE)	ARW7322

2.1.2 EXTERIOR (A-A9)

• A-A9 model




S7*4
S8*4
S7*4
S8*4
S15*3
S12*2
S11*2
S14*2
S2*5
S14*2
S11*2
S15*2
S3*2
S12*2
S15*2
S9*2
S14*2
S11*2
S15
S15*7
S2*5
S7*2
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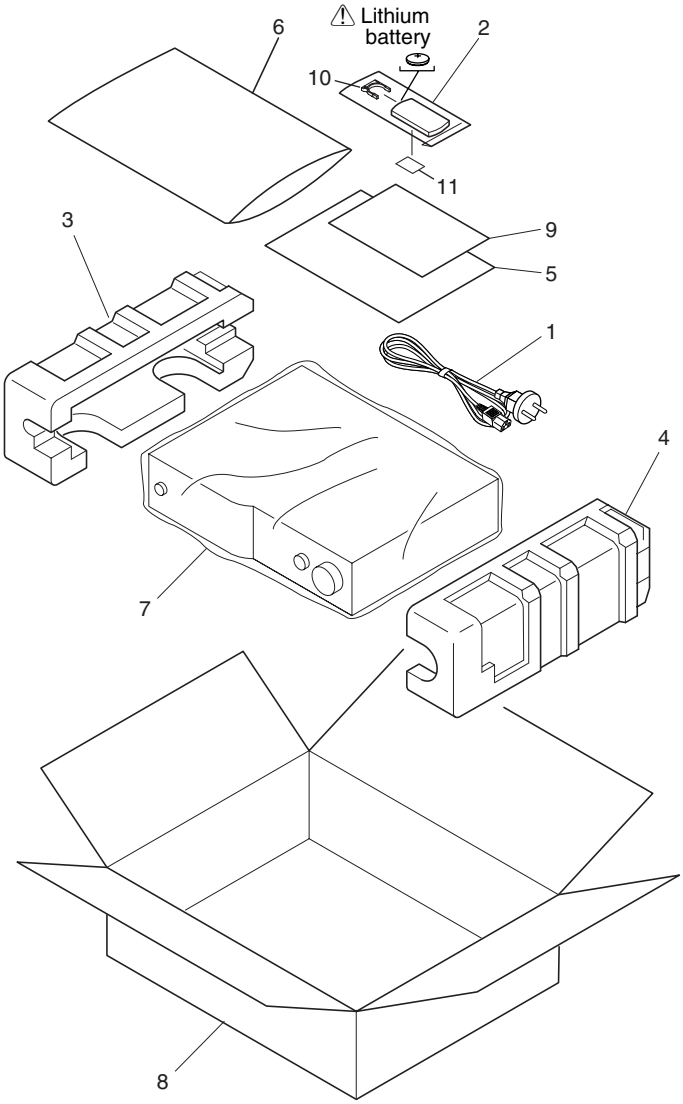
S11*2
S12*2
S12*2
S5*4
S11
S11*2
S11
S5*4
S7*2
S8*2
S1*2
S11*9
S6*4
S4*5
P
H
I
A
Q
J
O

• EXTERIOR (A-A9)

Mark	No.	Description	Part No.
⚠	1	POWER TRANS L	8200900550010-IL
⚠	1-1	POWER TRANS R	8200900550060-IL
	2	REG IC Assy	7028065471020-IL
	3	HEAT SINK TR	2120211008000-IL
	4	IC,REG	J126781200040-IL
	4-1	IC,REG	J126791200060-IL
	5	POWER SW Assy	7028065357060-IL
	6	S/W POWER	VSA1005
	7	TRANS SUB	8200280150330-IL
	8	SUB TRANS Assy	702806535A060-IL
	9	PLATE SUB TRANS	4470211012000-IL
	10	BRACKER TRANS	4010212736000-IL
	11	SUPPORT PCB	4070001601010-IL
	12	BRACKER HEAT SINK L	4010212716000-IL
⚠	13	SEMI,TR	J5001386A0010-IL
⚠	13-1	SEMI,TR	2SA1859A
⚠	13-2	SEMI,TR	J5024137V0130-IL
⚠	13-3	SEMI,TR	ASC4883A
⚠	13-4	SEMI,TR	J5023519A0010-IL
	14	CABINET TOP COVER	3007210786000-IL
	15	KNOB VOLUME	5088211378000-IL
	16	KNOB INPUT	5088211368000-IL
	17	BADGE	VAM1124
	18	PANEL FRONT L	3067212778000-IL
	19	GUIDE BADGE	4357210221000-IL
	20	GUIDE LENS	4357210241000-IL
	21	LENS REMOCON	3710210683000-IL
	22	WINDOW DISPLAY	5070212303000-IL
	23	PANEL FRONT R	3067212798000-IL
	24	FRAME PANEL	3217211301000-IL
	25	PLATE TOP	4477211028000-IL
	26	KNOB POWER	5087211391000-IL
	27	LENS POWER	3710210673000-IL
	28	POWER LED Assy	7028065358060-IL
	29	LENS STAND BY	3710210693000-IL
	30	STOPPER LED	4380210081000-IL
	31	FRONT Assy	7028065354060-IL
	32	POWER Assy	7025065353060-IL
NSP	33	CHASSIS MAIN & BACK	3207212016200-IL
	34	HEADPHONE Assy	702806535B060-IL
	35	JACK PHONE	G402PJ612AG0Y-IL
	36	BRACKET FRAEM L	4010212696000-IL
	37	PANEL SIDE	3067212818000-IL
	38	TER,BOARD SCREW(BK)	G610040300000-IL
	39	TER,BOARD SCREW(RD)	G610040310000-IL
	40	AMP LCH Assy	7028065351010-IL
	41	FUNCTION Assy	7028065361060-IL
NSP	42	HEAT SINK MAIN L	2120210998000-IL
	43	BRACKER HEAT SINK R	4010212726000-IL
	44	SPACER SUPPORT	4300210023000-IL
	45	JACK RCA 2PIN	7028065355060-IL
	46	LENS DIRECTY	3710210663000-IL
	47	COVER LCD L	4310212951000-IL
	48	COVER LCD R	4310212961000-IL
	49	LCD DISPLAY	AAV7111
	50	SHEET LCD DIFFUSION	1210210382000-IL
	51	WINDOW RAT LCD	5070212313000-IL
	52	HOUSING LCD	3050210051000-IL
	53	VR Assy	7028065359060-IL
	54	ROTARY MOTOR	C495121400350-IL
	55	MOTOR VR Assy	7028065355060-IL
	56	TERMINAL GROUND	3790000090000-IL
	59	JACK RCA 6PIN	G603617AG04GY-IL
	60	SHIELD PLATE GROUND	3070045526010-IL
	61	CN,PLUG CONTACT	G480670680010-IL
	62	EARPHONE JACK	G40130802000Y-IL
	63	XM-READY/USB Assy	7028065362060-IL
	66	FELT FOOT CAST	2690210119000-IL
	67	FOOT CAST	4007210408000-IL
	68	ENCODER SW	G121162400050-IL
	69	BAR BOTTOM FRONT	1040000018000-IL
	70	COVER BOTTOM	4317212946000-IL
	71	BAR BOTTOM SIDE	1040000028000-IL
	72	BRACKET FRAME R	4010212706000-IL
	73	AC INLET	G430019090010-IL
	74	MODULE	E940633800000-IL
	75	REMOCON Assy	7028065356060-IL
	76	STATION Assy	7028065461020-IL
	77	HOLDER CHIP	4320210591000-IL
	78	HOLDER INLET CORD	4320210601000-IL
	79	SHIELD PLATE USB	3070210286000-IL
	80	CUSHION SCREW	4050211205000-IL
NSP	81	TAPE PLATE TOP(E)	1220210299000-IL
NSP	82	TAPE PLATE TOP(F)	1220210309000-IL
NSP	83	HEAT SINK MAIN R	2120211048000-IL
	84	CUSHION SIDE PANEL	4050211725000-IL
NSP	85	ACETAPE(15*80)	1220210059070-IL
NSP	86	ACETAPE(15*45)	1220210059050-IL
NSP	87	ACETAPE(33*50)	1220210319000-IL
NSP	88	ACETAPE(15*110)	1220210059000-IL
	89	BAR BOTTOM FRONT	4330210062000-IL
	90	PROTECTION L-CH ASSY	7028065363010-IL
	91	PROTECTION R-CH ASSY	7028065364010-IL
	92	AMP RCH ASSY	7028065352010-IL
	S1	SCREW (+2S 3*8 B-TYPE BK/BH)	B020030083B10-IL
	S2	SCREW (+2S 3*14 P+S-WASHER ZNY/HH)	B018230141H11-IL
	S3	SCREW (+2S 3*17 B-TYPE ZNY/BH)	B020030171B10-IL
	S4	SCREW (+2S 3*17 B-TYPE BK/BH)	B020030173B10-IL
	S5	SCREW (+2S 4*10 ZNY/HH)	B028940101B10-IL
	S6	SCREW (+3S 4*27 S-TYPE BK/BH)	B020740273B10-IL
	S7	SCREW (+2S 4*10 B-TYPE CR-PLATE)	1500040103P41-IL
	S9	SCREW (+2S 3*8 B-TYPE FH/CU)	B020030086F10-IL
	S10	SCREW (+2S 3*10 B-TYPE BH/CU)	B020030106B10-IL
	S11	SCREW (+2S 3*8 B-TYPE(DOT) BH/CU)	B020030086B11-IL
	S12	SCREW (+2S 3*8 B-TYPE WASHER BH/CU)	B028030086B10-IL
	S13	SCREW (+2S 3*8 B-TYPE BH/CU)	B020030086B10-IL
	S14	SCREW (+2S 3*6 B-TYPE BH/CU)	B020030066B10-IL
	S15	SCREW (+3S 3*10 B-T(DOT) BH/CU))	B020030106B11-IL

2.2 A-A6 model
2.2.1 PACKING (A-A6)

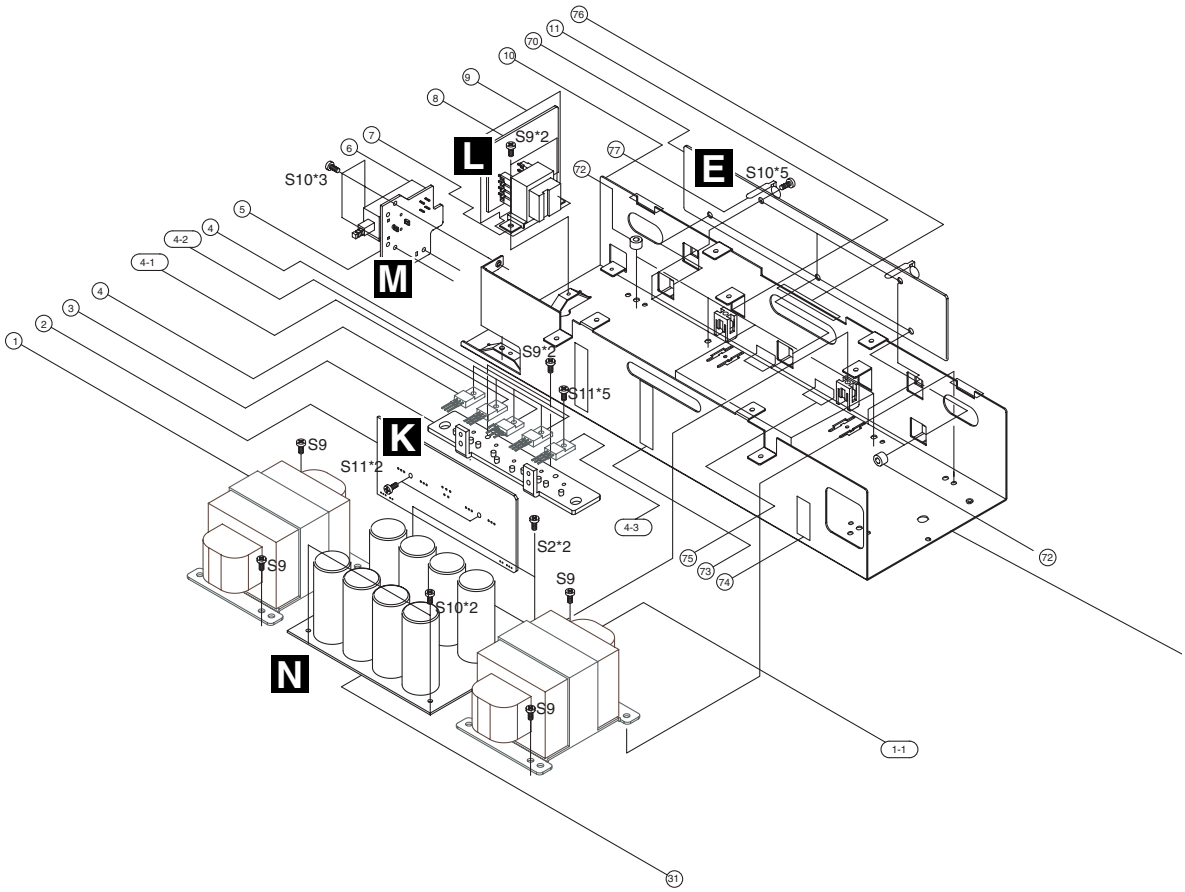


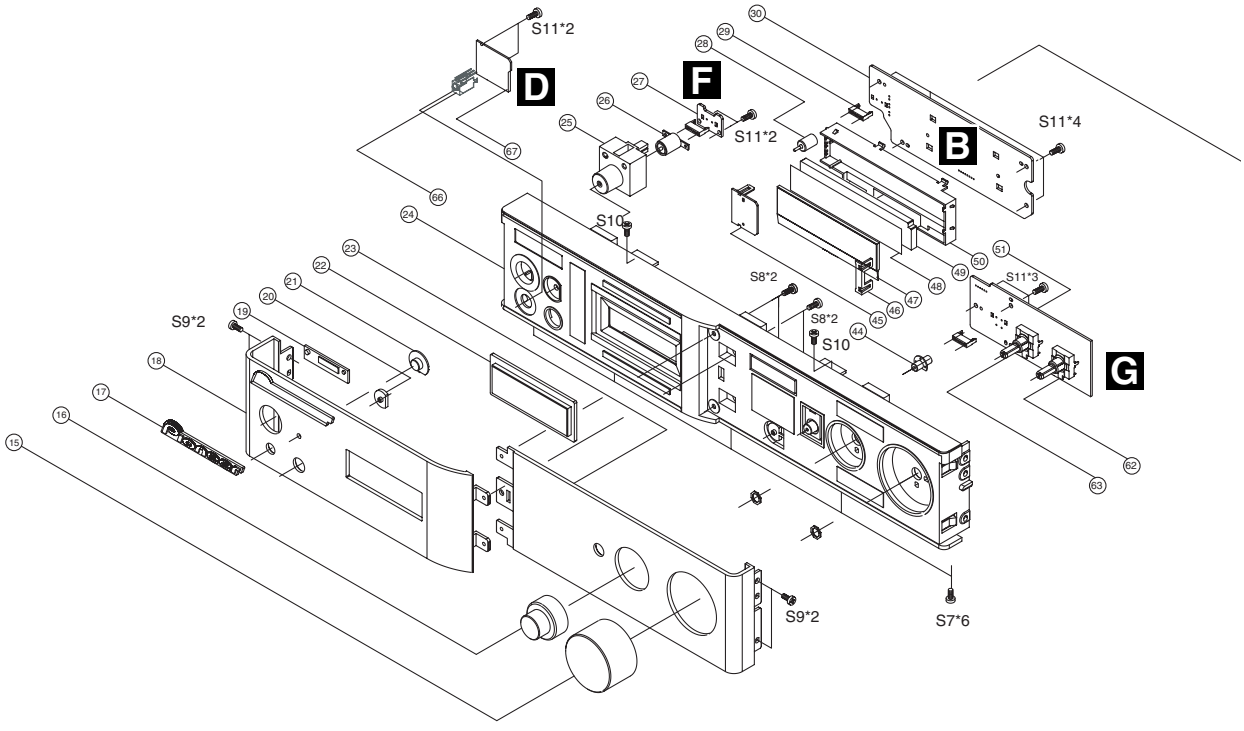
• PACKING (A-A6)

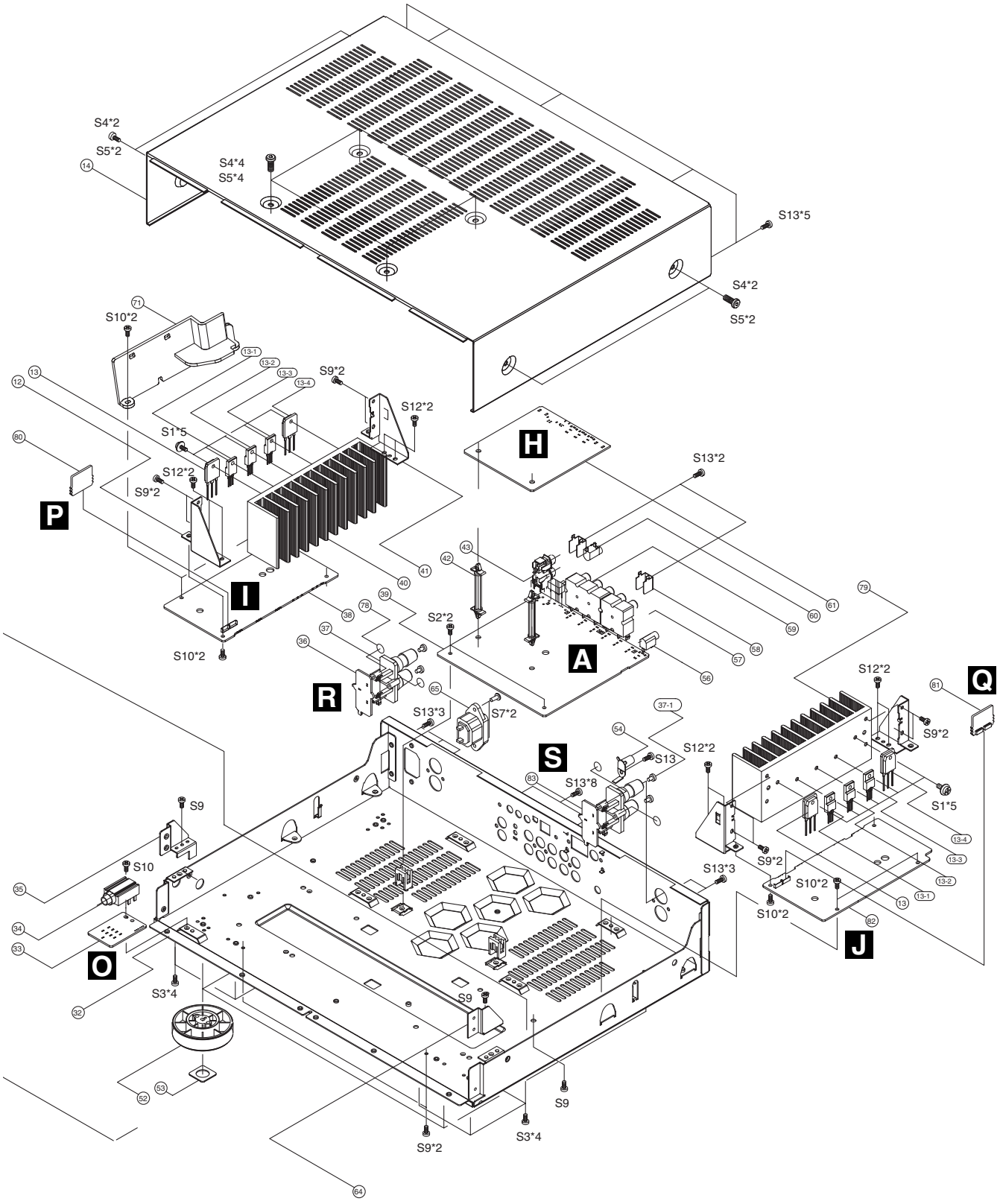
Mark	No.	Description	Part No.
⚠	1	POWER CABLE	L068250160020-IL
	2	REMOTE CONTROL	8300747200010-IL
	3	CUSHION,SNOW L	6230211514000-IL
	4	CUSHION,SNOW R	6230211524000-IL
	5	OPERATING INSTRUCTIONS (English/French/German/Dutch/Italian/Spanish)	5707000000120-IL
NSP	6	POLY BAG	6337000240010-IL
	7	PE,SHEET	6327040022012-IL
	8	BOX,GIFT	6007210930010-IL
NSP	9	WARRANTY CARD	ARY7065
	10	BATTERY COVER B	AZN8024
	11	LABEL (WEEE)	ARW7322

2.2.2 EXTERIOR (A-A6)

• A-A6 model






S4*2
S5*2
14
S4*4
S5*4
S13*5
S4*2
S5*2
71
S10*2
13
12
13-1
13-2
13-3
13-4
S9*2
S12*2
S1*5
80
S12*2
S9*2
P
I
H
S13*2
43
42
41
40
39
38
78
S2*2
A
79
61
60
59
58
57
56
S10*2
37
36
R
65
S13*3
S7*2
37-1
54
S13
S12*2
S
83
S13*8
Q
81
S12*2
S9*2
S1*5
S9
35
S10
34
33
O
S3*4
32
S9
S13*3
S9*2
S10*2
13-4
13-3
13-2
13
13-1
S10*2
82
J
52
53
S9
S3*4
S9*2
64

• EXTERIOR (A-A6)

Mark	No.	Description	Part No.
⚠	1	TRANS MAIN L	8200660550340-IL
⚠	1-1	TRANS MAIN R	8200660550390-IL
	2	REG IC Assy	7028065471010-IL
	3	HEAT SINK TR	2120211008000-IL
	4	IC,REG	J126781200040-IL
	4-1	IC,REG	J126791200060-IL
	5	POWER SW Assy	7028065357010-IL
	6	S/W POWER	VSA1005
	7	TRANS SUB	8200280150330-IL
	8	SUB TRANS Assy	702806535A010-IL
	9	PLATE SUB TRANS	4470211012000-IL
	10	BRACKER TRANS	4010212736000-IL
	11	SUPPORT PCB	4070001601010-IL
	12	BRACKER HEAT SINK L	4010212716000-IL
⚠	13	SEMI,TR	J5001386A0010-IL
⚠	13-1	SEMI,TR	2SA1859A
⚠	13-2	SEMI,TR	J5024137V0130-IL
⚠	13-3	SEMI,TR	2SC4883A
⚠	13-4	SEMI,TR	J5023519A0010-IL
	14	CABINET TOP COVER	3007210796000-IL
	15	KNOB VOLUME	5088211388000-IL
	16	KNOB INPUT	5088211368000-IL
	17	BADGE	VAM1124
	18	PANEL FRONT L	3067212788000-IL
	19	GUIDE BADGE	4357210221000-IL
	20	GUIDE LENS	4357210241000-IL
	21	LENS REMOCON	3710210683000-IL
	22	WINDOW DISPLAY	5070212303000-IL
	23	PANEL FRONT R	3067212808000-IL
	24	FRAME PANEL	3217211311000-IL
	25	KNOB POWER	5087211391000-IL
	26	LENS POWER	3710210673000-IL
	27	POWER LED Assy	7028065358010-IL
	28	LENS STAND BY	3710210693000-IL
	29	STOPPER LED	4380210081000-IL
	30	FRONT Assy	7028065354010-IL
	31	POWER Assy	7025065353010-IL
NSP	32	CHASSIS MAIN & BACK	3207212016000-IL
	33	HEADPHONE Assy	702806535B060-IL
	34	JACK PHONE	G402PJ612AG0Y-IL
	35	BRACKET FRAEM L	4010212696000-IL
	36	SPAKER L-CH Assy	7028065462010-IL
	37	JACK SPEAKER	G611202H0100Y-IL
	37-1	BUSHING TREMINAL	2410040353010-IL
	38	AMP LCH Assy	7028065351010-IL
	39	FUNCTION Assy	7028065361010-IL
NSP	40	HEAT SINK MAIN L Assy	2120210998000-IL
	41	BRACKER HEAT SINK R	4010212726000-IL
	42	SPACER SUPPORT	4300210023000-IL
	43	JACK RCA 2PIN	G601207BG020Y-IL
	44	LENS DIRECT	3710210663000-IL
	45	COVER LCD L	4310212951000-IL
	46	COVER LCD R	4310212961000-IL
	47	LCD DISPLAY	AAV7111
	48	SHEET LCD DIFFUSION	1210210382000-IL
	49	WINDOW RAT LCD	5070212313000-IL
	50	HOUSING LCD	3050210051000-IL
	51	VR Assy	7028065359010-IL
	52	FOOT	4000210391000-IL
	53	CUSHION FOOT	4050211605000-IL
	54	TERMINAL GROUND	3790000090000-IL
	57	JACK RCA 6PIN	G602617AG020Y-IL
	58	SHIELD PLATE GROUND	3070045526010-IL
	59	RCA JACK 6PIN	G603617AG04GY-IL
	60	EARPHONE JACK	G40130802000Y-IL
	61	XM-READY/USB Assy	7028065362010-IL
	62	ENCODER, SW/ VOLUME	G121162401200-IL
	63	ENCODER, SW/ INPUT	G121162400050-IL
	64	BRACKET FRAME R	4010212706000-IL
	65	AC INLET	G430019090010-IL
	66	MODULE	E940633800000-IL
	67	REMOCON Assy	7028065356010-IL
	70	STATION Assy	7028065461010-IL
	71	HOLDER INLET CORD	4320210601000-IL
	72	CUSHION SCREW	4050211205000-IL
NSP	73	ACETAPE(15*80)	1220210059070-IL
NSP	74	ACETAPE(15*45)	1220210059050-IL
NSP	75	ACETAPE(33*50)	1220210319000-IL
NSP	76	ACETAPE(15*110)	1220210059000-IL
	77	CLAMP RETAINER COIL	4330210062000-IL
NSP	78	CUSHION CAP SCREW	4050211745000-IL
NSP	79	HEAT SINK MAIN R	2120211048000-IL
	80	PROTECTION L-CH ASSY	7028065363010-IL
	81	PROTECTION R-CH ASSY	7028065364010-IL
	82	AMP RCH ASSY	7028065352010-IL
	83	SPAKER R-CH Assy	7028065463010-IL
	S1	SCREW (+2S 3*8 B-TYPE BK/BH)	B020030083B10-IL
	S2	SCREW (+2S 3*14 P+S-WASHER ZNY/HH)	B018230141H11-IL
	S3	SCREW (+2S 4*10 ZNY/HH)	B020030171B10-IL
	S4	SCREW (1500040103P41S)	B020030173B10-IL
	S5	SCREW (1500040104P41S)	B028940101B10-IL
	S6	SCREW (+3S 4*17 S-TYPE BK/BH)	B020740273B10-IL
	S7	SCREW (+2S 3*8 B-TYPE FH/CU)	B020030086F10-IL
	S8	SCREW (+2S 3*10 B-TYPE BH/CU)	B020030106B10-IL
	S9	SCREW (+2S 3*8 B-TYPE(DOT) BH/CU)	B020030086B11-IL
	S10	SCREW (+2S 3*8 B-TYPE WASHER BH/CU)	B028030086B10-IL
	S11	SCREW (+2S 3*8 B-TYPE BH/CU)	B020030086B10-IL
	S12	SCREW (+2S 3*6 B-TYPE BH/CU)	B020030066B10-IL
	S13	SCREW (+3S 3*10 B-T(DOT) BH/CU))	B020030106B11-IL

A

B

C

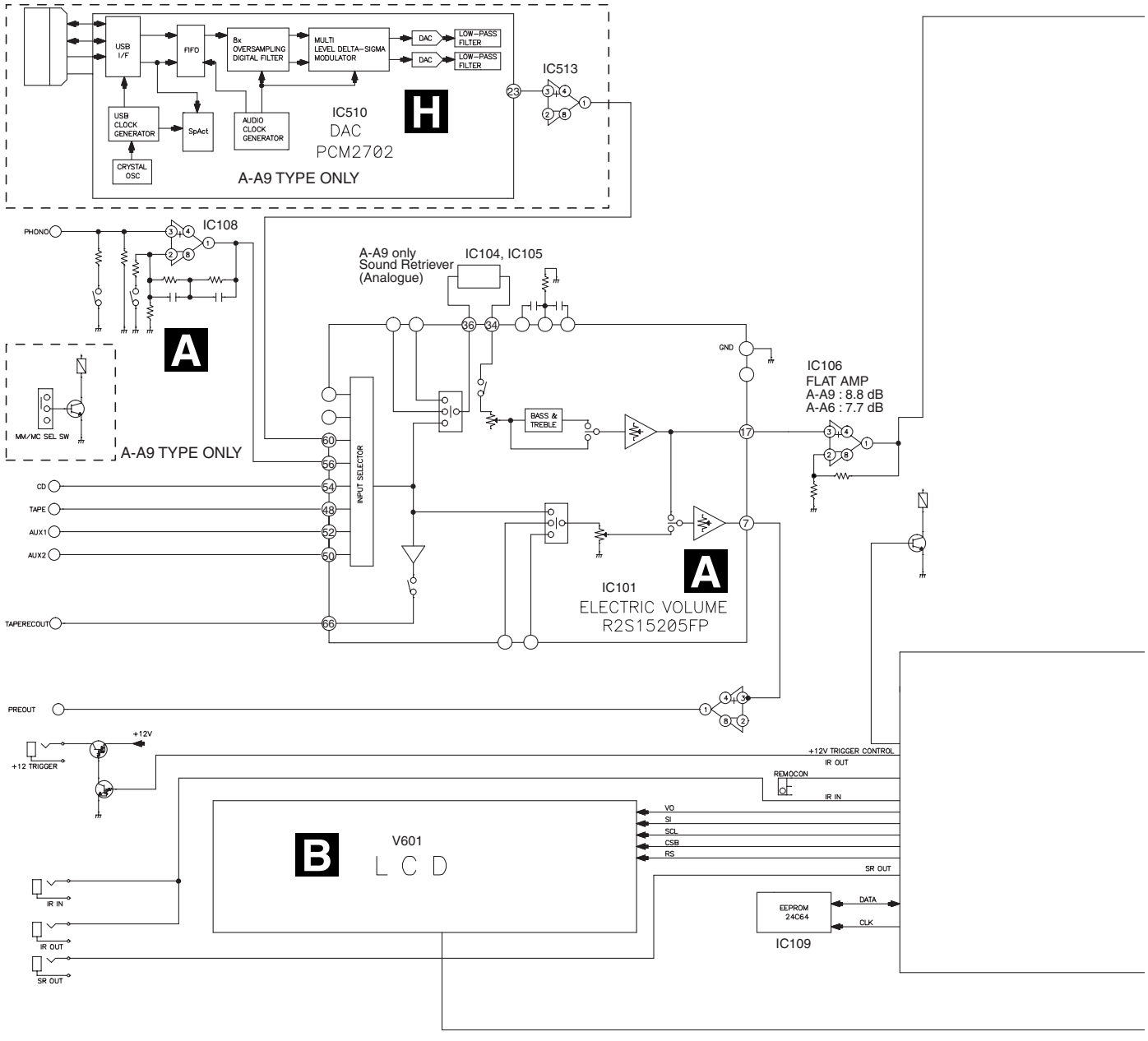
D

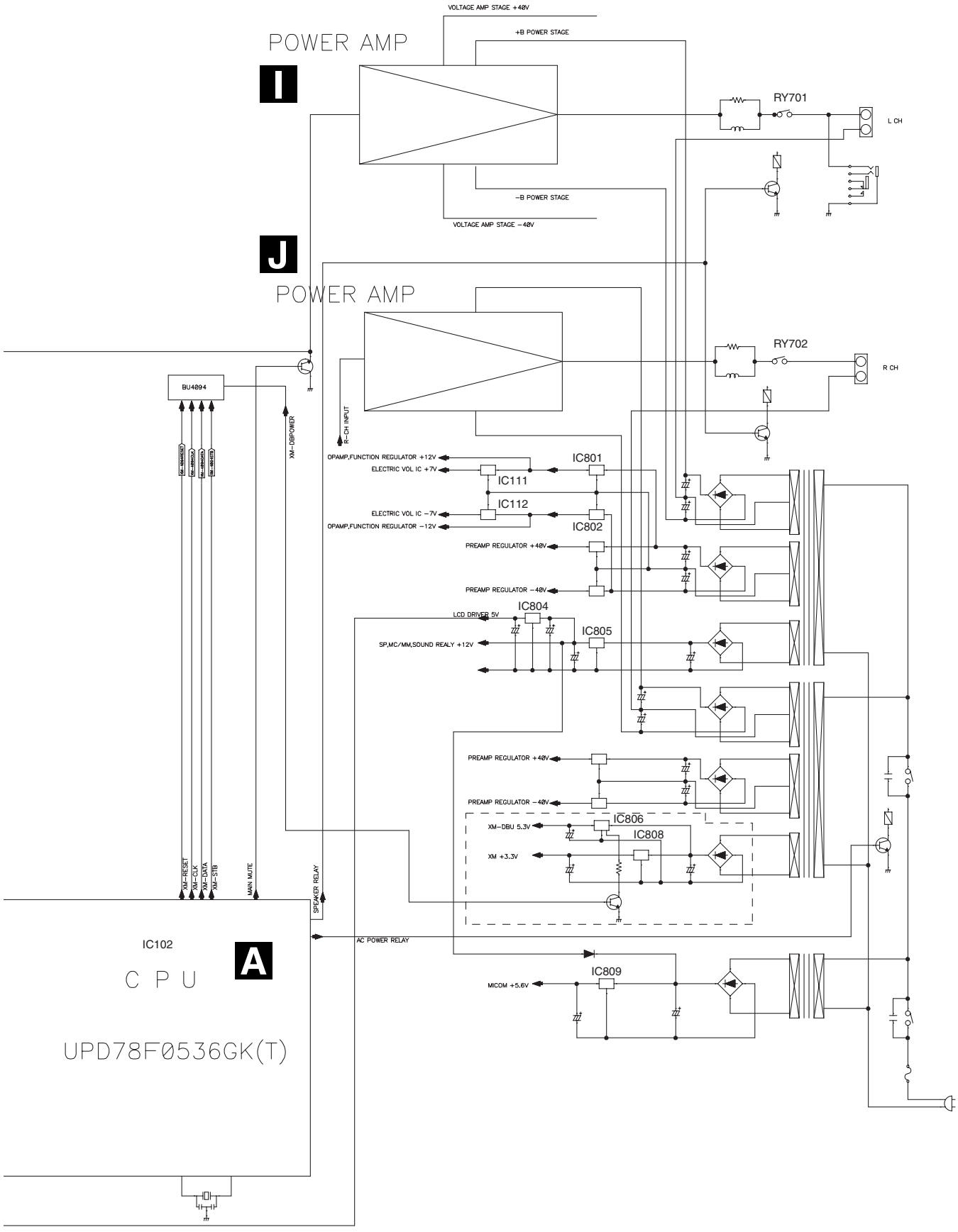
E

F

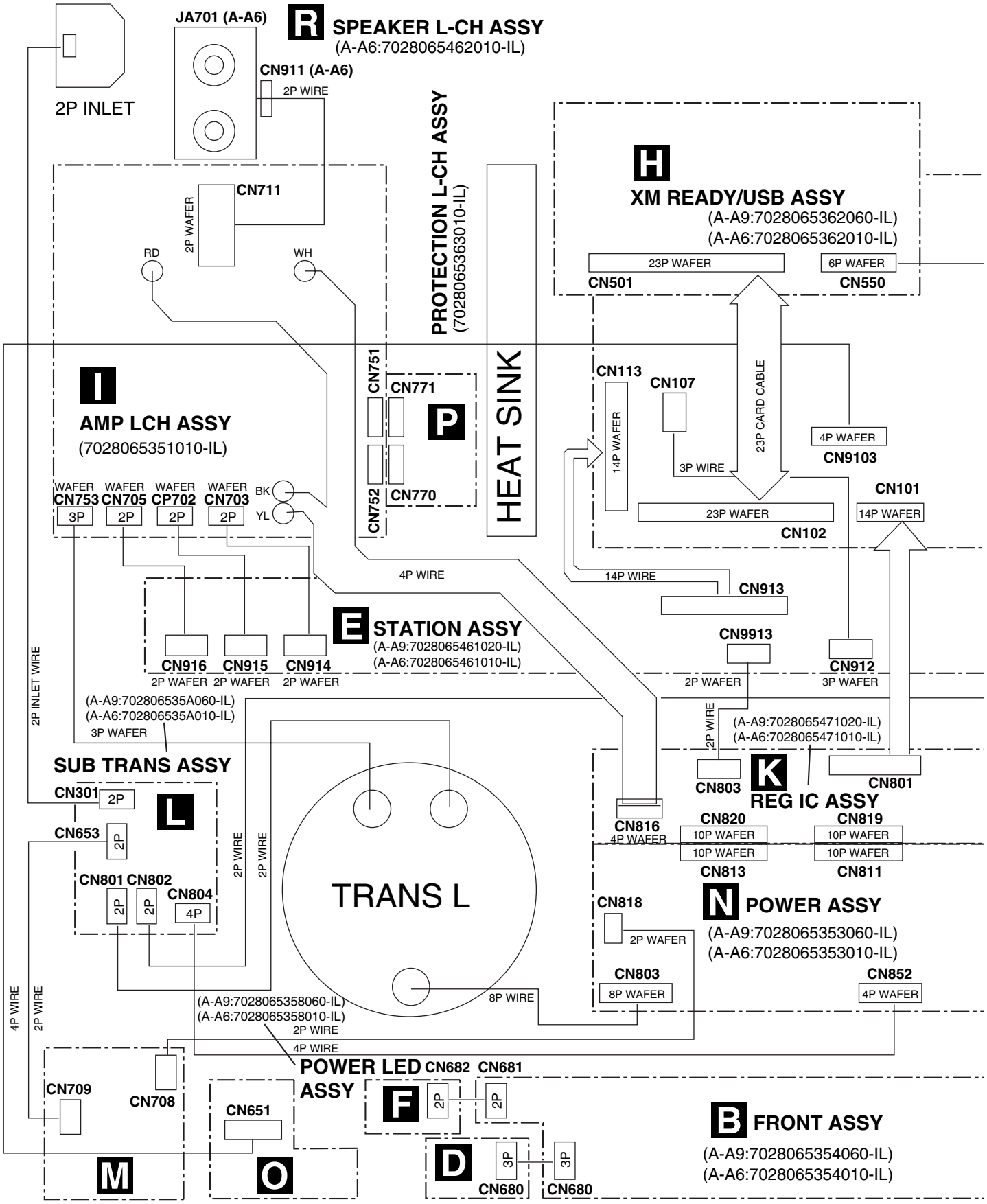
3. BLOCK DIAGRA AND SCHEMATIC DIAGRAM

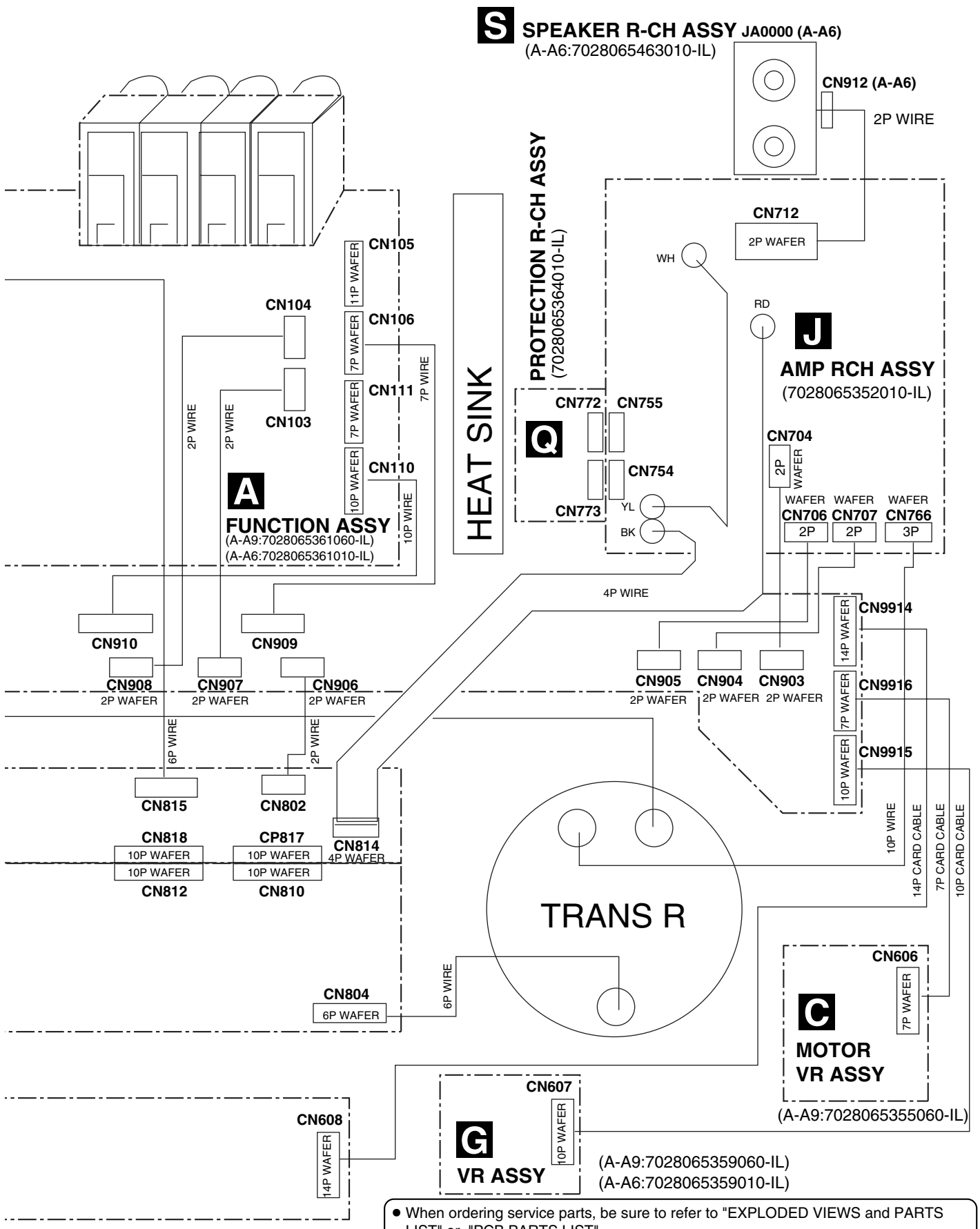
3.1 OVERALL BLOCK DIAGRAM




POWER AMP
I
VOLTAGE AMP STAGE +40V
+B POWER STAGE
RY701
L CH
-B POWER STAGE
VOLTAGE AMP STAGE -40V
J
POWER AMP
RY702
R CH
BU4094
R-CH INPUT
XM-DBPOWER
OPAMP,FUNCTION REGULATOR +12V
ELECTRIC VOL IC +7V
IC801
IC111
IC112
ELECTRIC VOL IC -7V
OPAMP,FUNCTION REGULATOR -12V
IC802
PREAMP REGULATOR +40V
PREAMP REGULATOR -40V
IC804
LCD DRIVER 5V
IC805
SP,MC/MM,SOUND REALY +12V
PREAMP REGULATOR +40V
PREAMP REGULATOR -40V
IC806
XM-DBU 5.3V
IC808
XM +3.3V
XM-RESET
XM-CLK
XM-DATA
XM-STB
MAIN MUTE
SPEAKER RELAY
AC POWER RELAY
IC809
MICOM +5.6V
IC102
A
C P U
UPD78F0536GK(T)

3.2 OVERALL WIRING DIAGRAM

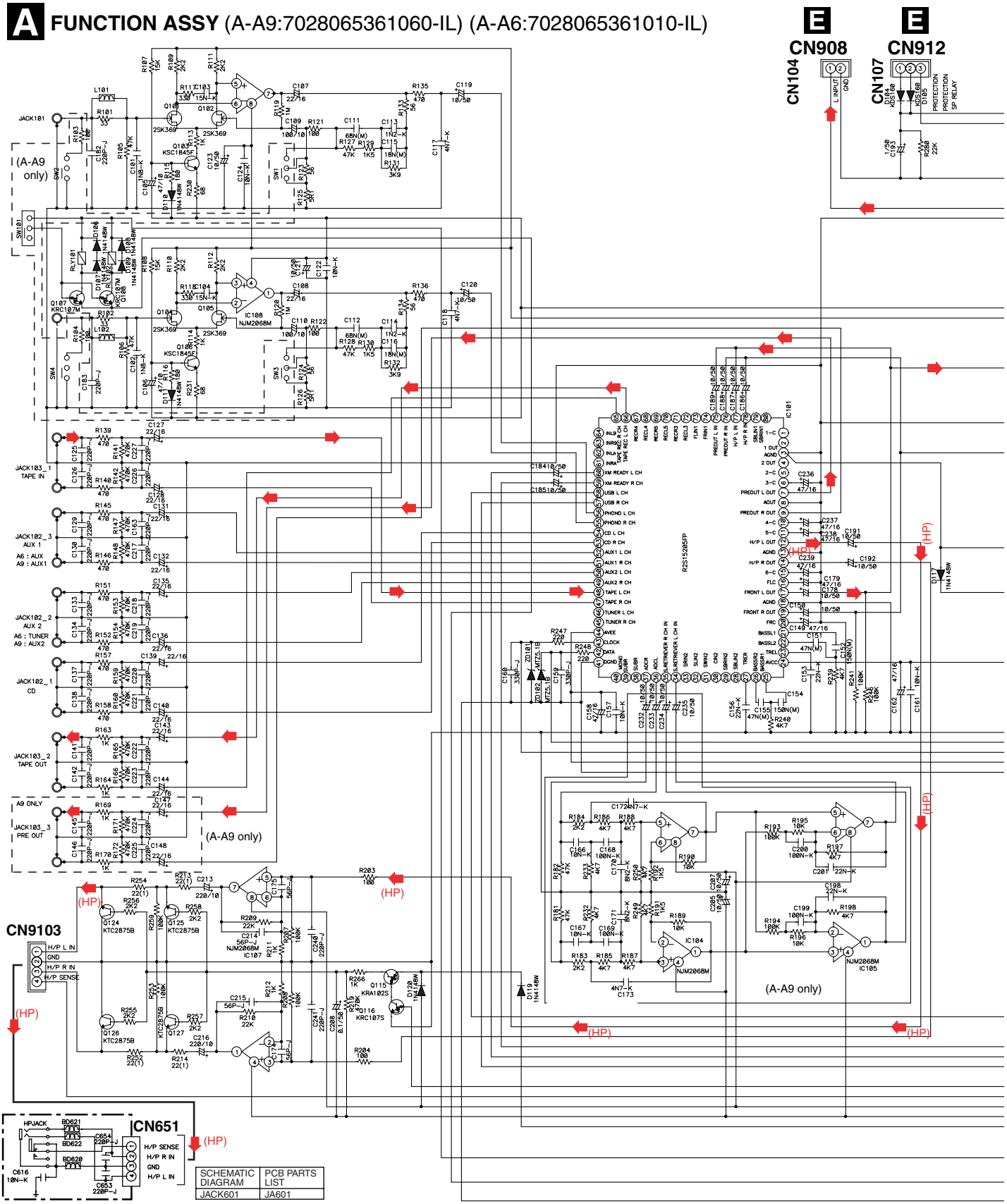




- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

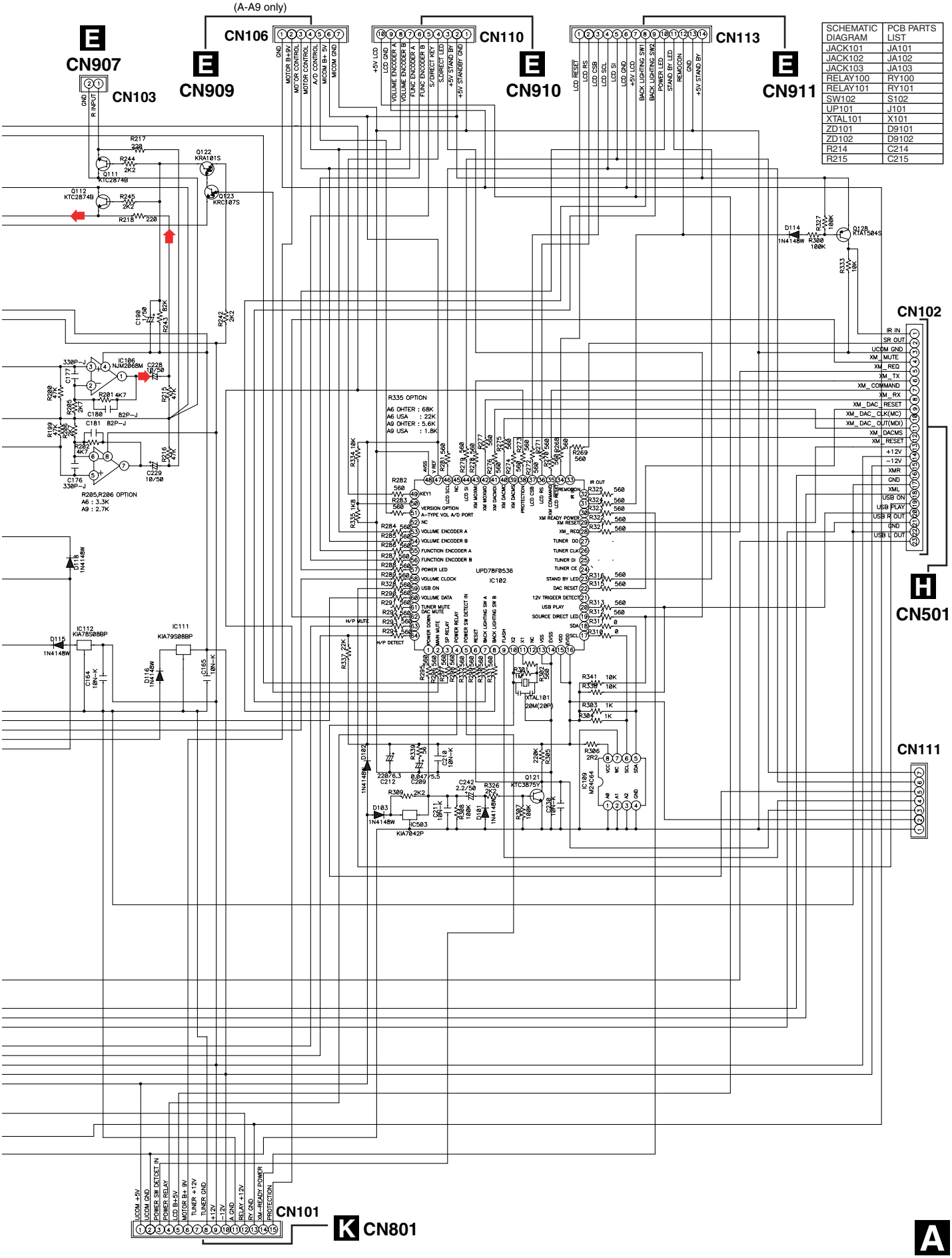
3.3 FUNCTION and HEADPHONE ASSYS

A FUNCTION ASSY (A-A9:7028065361060-IL) (A-A6:7028065361010-IL)



: AUDIO SIGNAL ROUTE (L ch)

(HP) : AUDIO SIGNAL ROUTE (H.P L ch)

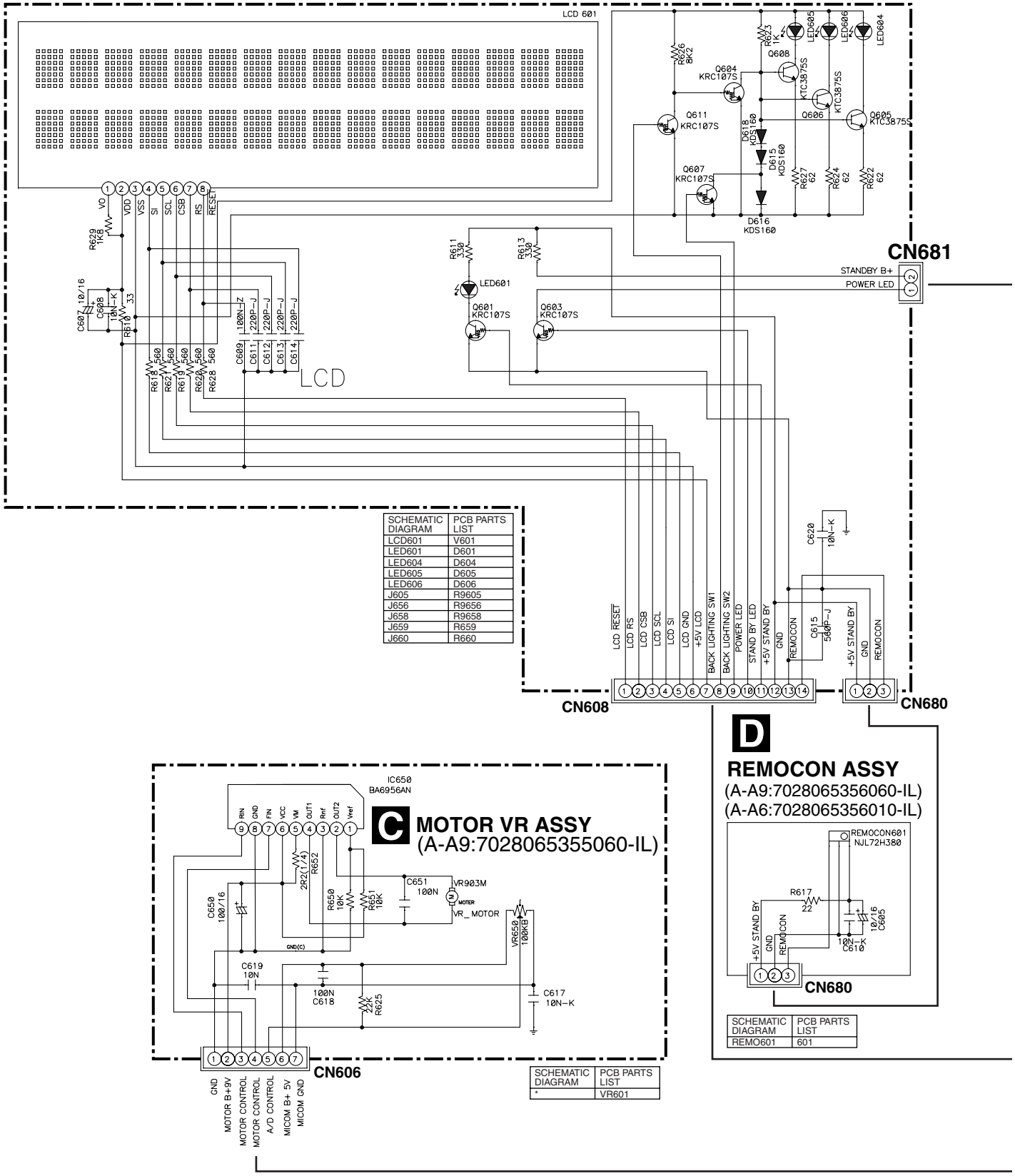


SCHEMATIC DIAGRAM	PCB PARTS LIST
JACK101	JA101
JACK102	JA102
JACK103	JA103
RELAY100	RY100
RELAY101	RY101
SW102	S102
UP101	J101
XTAL101	X101
ZD101	D9101
ZD102	D9102
R214	C214
R215	C215

A-A9-J

3.4 FRONT, MOTOR VR, REMOCON, STATION, POWER LED and VR ASSYS

B FRONT ASSY
(A-A9:7028065354060-IL)
(A-A6:7028065354010-IL)



SCHEMATIC DIAGRAM	PCB PARTS LIST
LCD601	V601
LED601	D601
LED604	D604
LED605	D605
LED606	D606
J605	R9605
J656	R9656
J658	R9658
J659	R659
J660	R660

C MOTOR VR ASSY
(A-A9:7028065355060-IL)

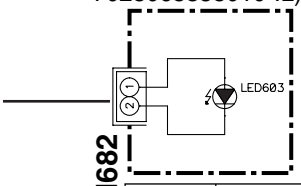
SCHEMATIC DIAGRAM	PCB PARTS LIST
*	VR601

D REMOCON ASSY
(A-A9:7028065356060-IL)
(A-A6:7028065356010-IL)

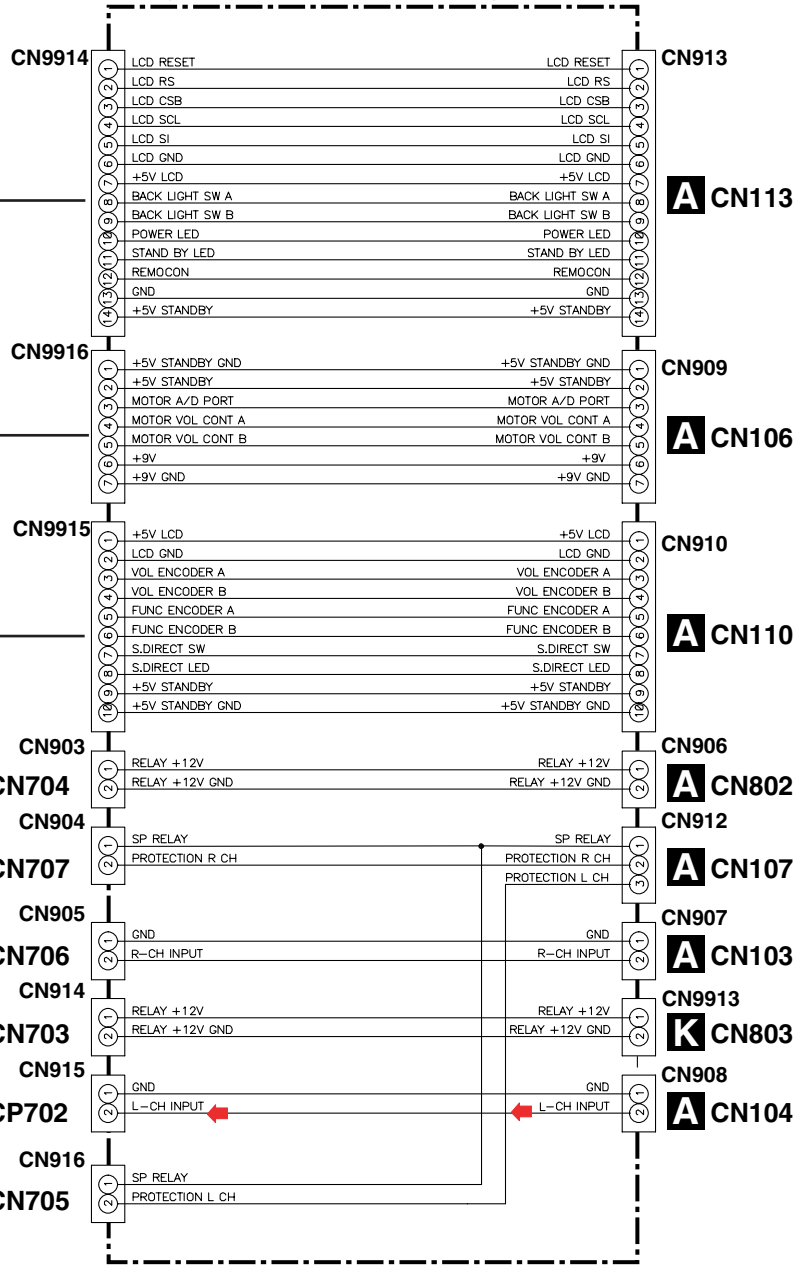
SCHEMATIC DIAGRAM	PCB PARTS LIST
REMO601	601

E STATION ASSY
(A-A9:7028065461020-IL)
(A-A6:7028065461010-IL)

F POWER LED ASSY
(A-A9:
7028065358060-IL)
(A-A6:
7028065358010-IL)

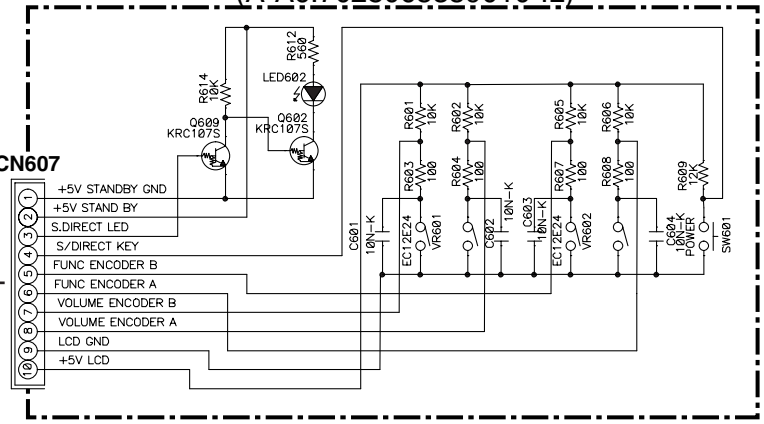


SCHEMATIC DIAGRAM	PCB PARTS LIST
LED603	D603



: AUDIO SIGNAL ROUTE (L ch)

G VR ASSY (A-A9:7028065359060-IL)
(A-A6:7028065359010-IL)

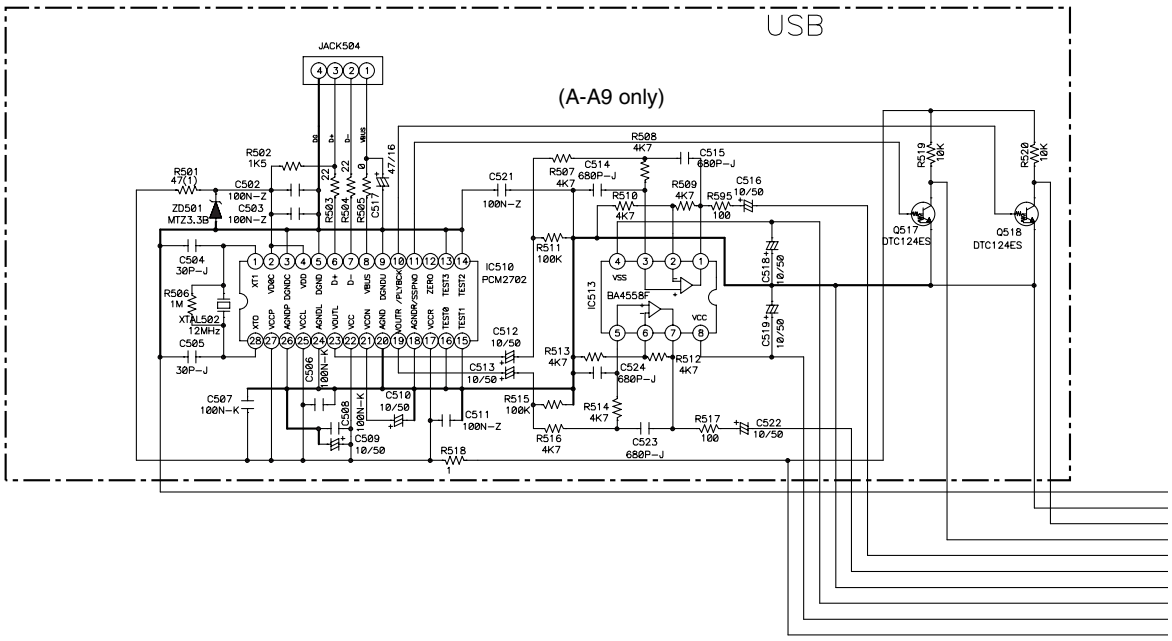


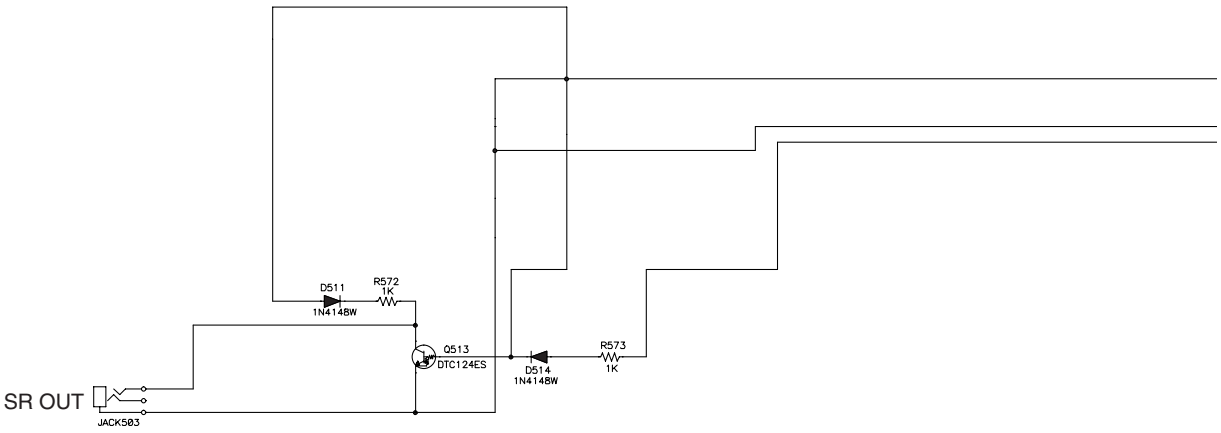
SCHEMATIC DIAGRAM	PCB PARTS LIST
LED602	D602
SW601	S601
VR602	S602

E F G

3.5 XM-READY/USB ASSY

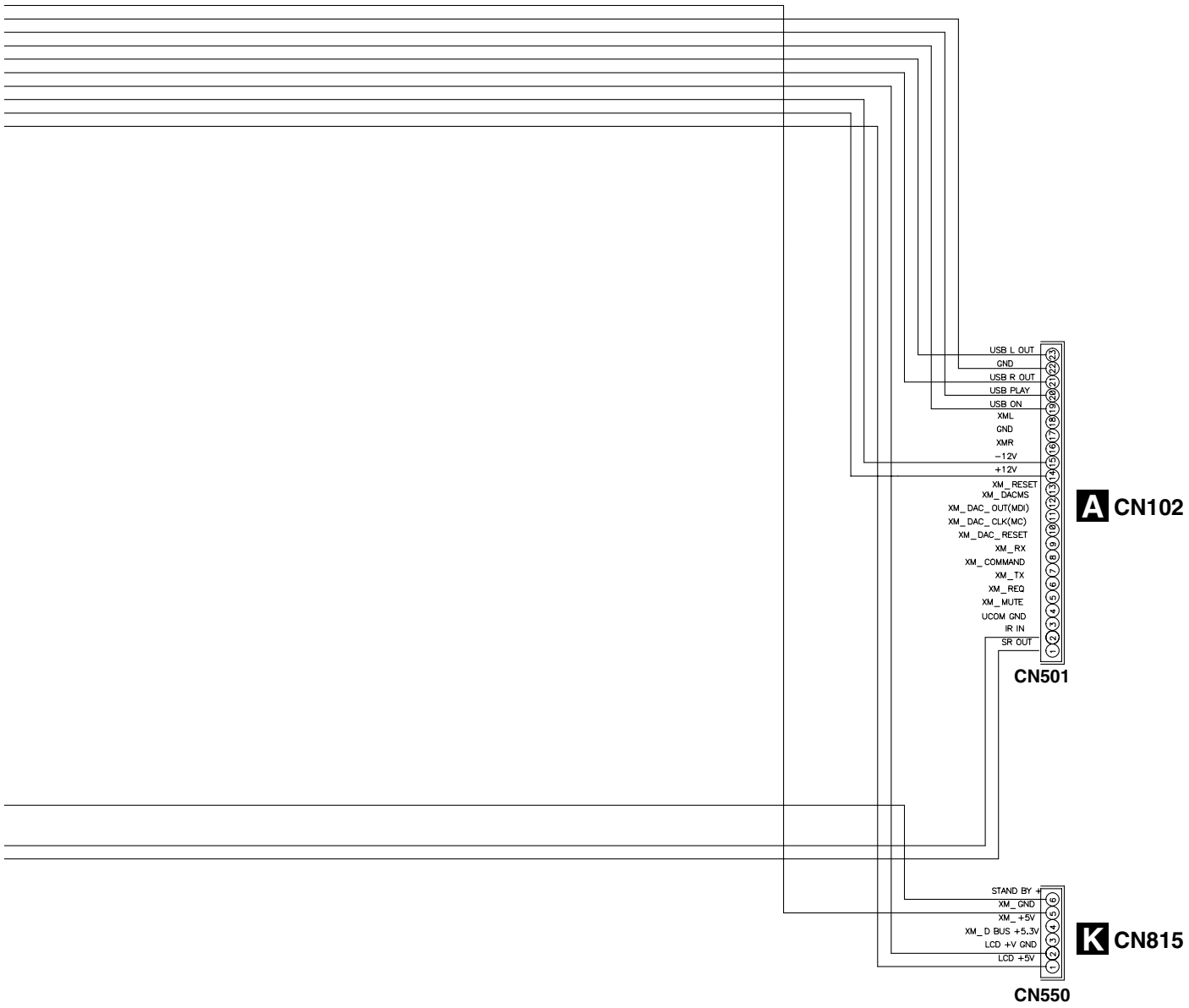
XM-READY/USB ASSY (A-A9:7028065362060-IL)
(A-A6:7028065362010-IL)





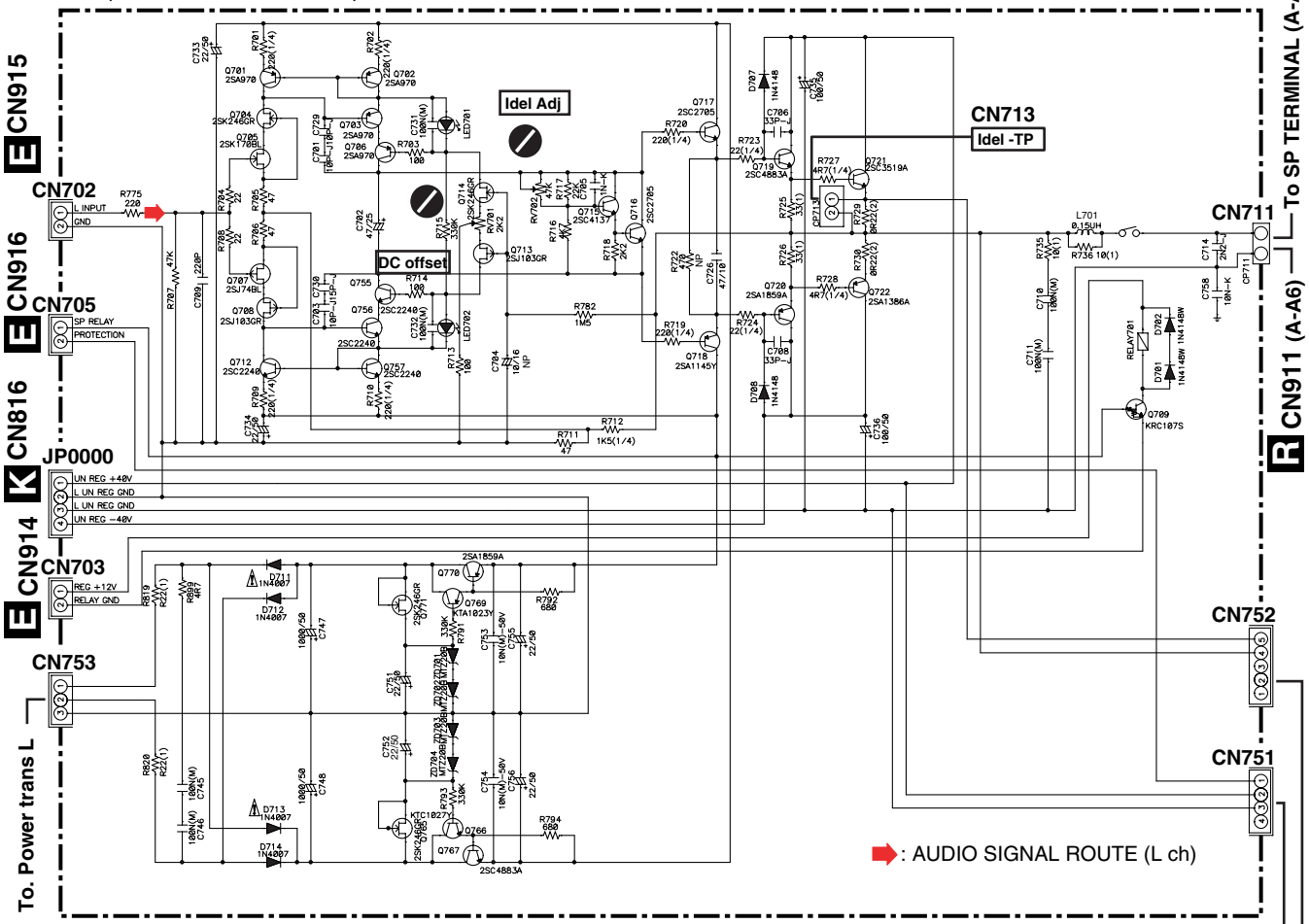
A-A9-J

SCHEMATIC DIAGRAM	PCB PARTS LIST
BKT501	501
BKT502	502
JACK503	JA503
JACK504	JA504
XTAL502	X502
ZD501	D501
GND502	502
GND503	503



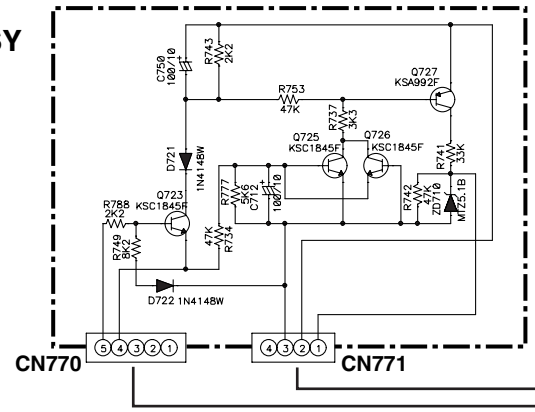
3.6 AMP LCH, AMP RCH, PROTECTION L-CH and PROTECTION R-CH ASSYS

I AMP L CH ASSY
(7028065351010-IL)

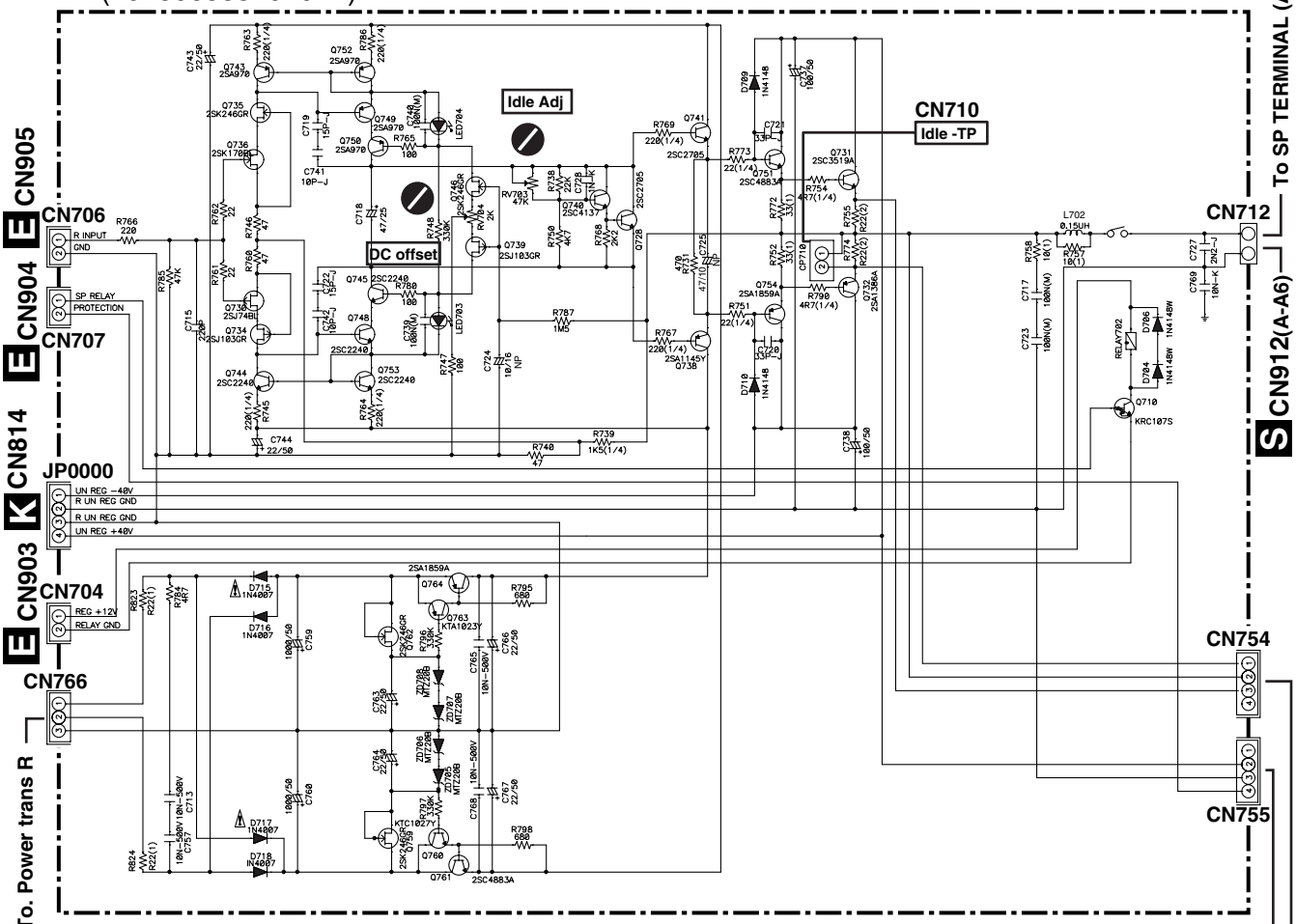


SCHEMATIC DIAGRAM	PCB PARTS LIST
RV701	VR701
RV702	VR702
RELAY701	RY701
ZD701	D9701
ZD702	D9702
ZD703	D9703
ZD704	D9704
LED701	D8701
LED702	D8702
ZD707	D707
ZD708	D708

P PROTECTION L-CH ASSY
(7028065363010-IL)

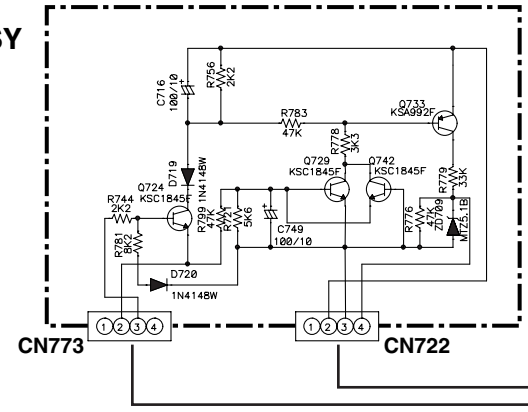


J AMP R CH ASSY
(7028065352010-IL)

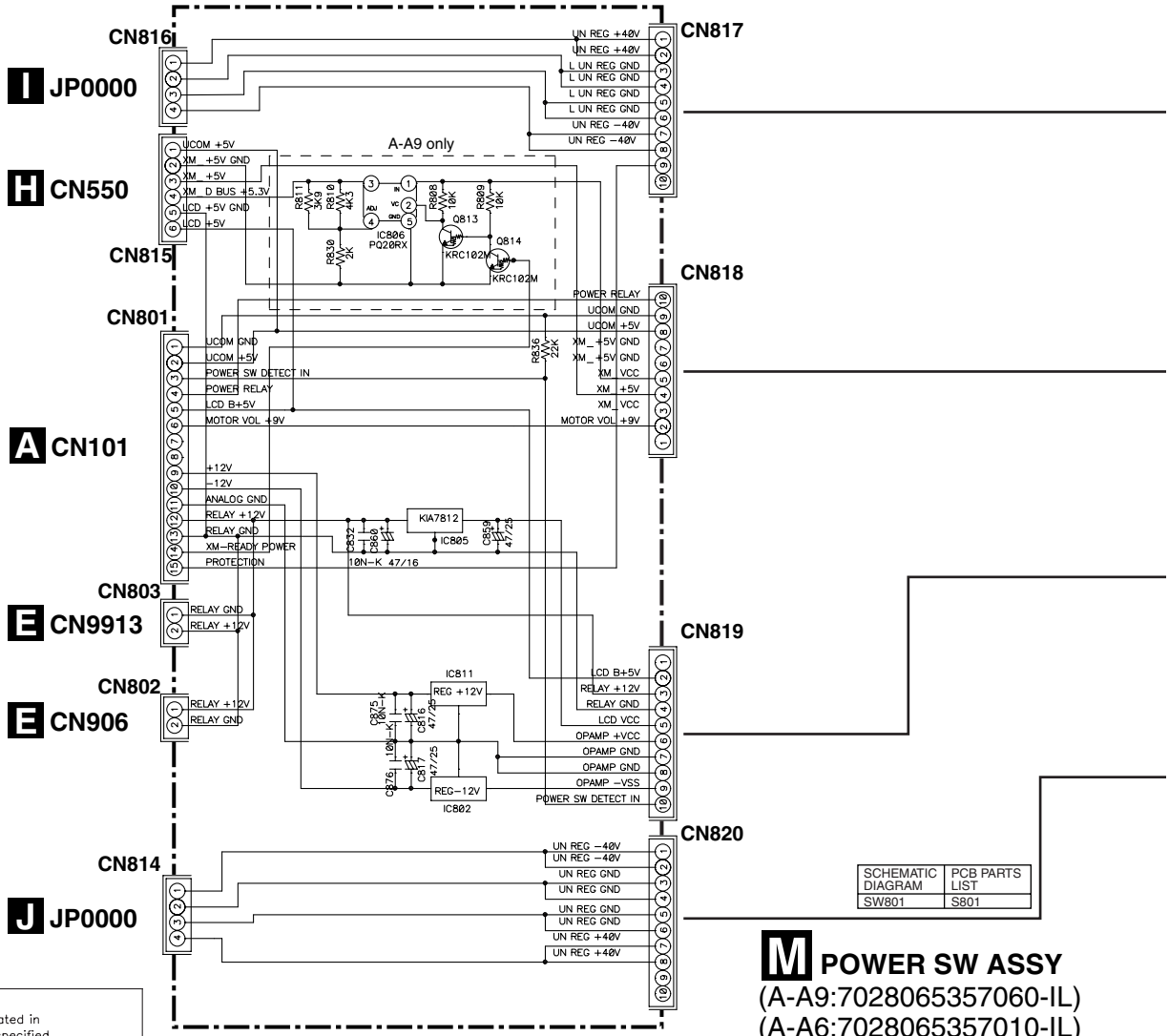


SCHEMATIC DIAGRAM	PCB PARTS LIST
RELAY702	RY702
RV703	VR703
RV704	VR704
ZD706	D706
LED703	D703
ZD705	D705
J716	R9716
J718	R9718
J719	R9719
J720	R9720
J721	R9721
J722	R9722
J729	R9729
J730	R9730
J732	R9732
J735	R9735
J739	R9739
J751	R9751
J752	R9752
J754	R9754
J755	R9755
J756	R9756
J757	R9757
J758	R9758
J759	R9759
J760	R9760

Q PROTECTION R-CH ASSY
(7028065364010-IL)

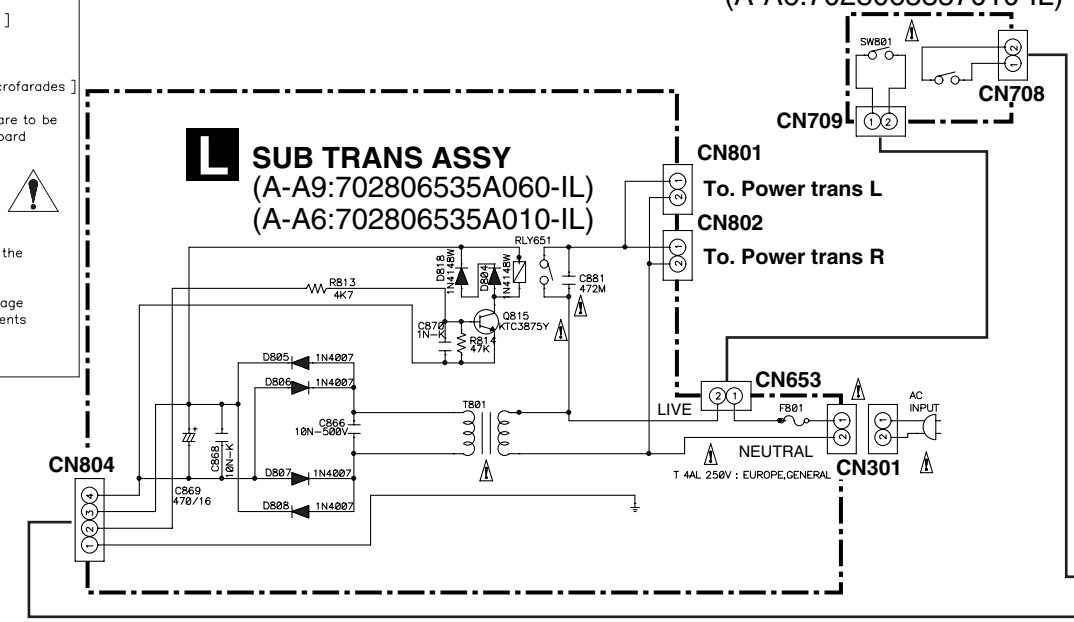


3.7 REG IC, SUB TRANS, POWER SW and POWER ASSYS



SCHEMATIC DIAGRAM	PCB PARTS LIST
SW801	S801

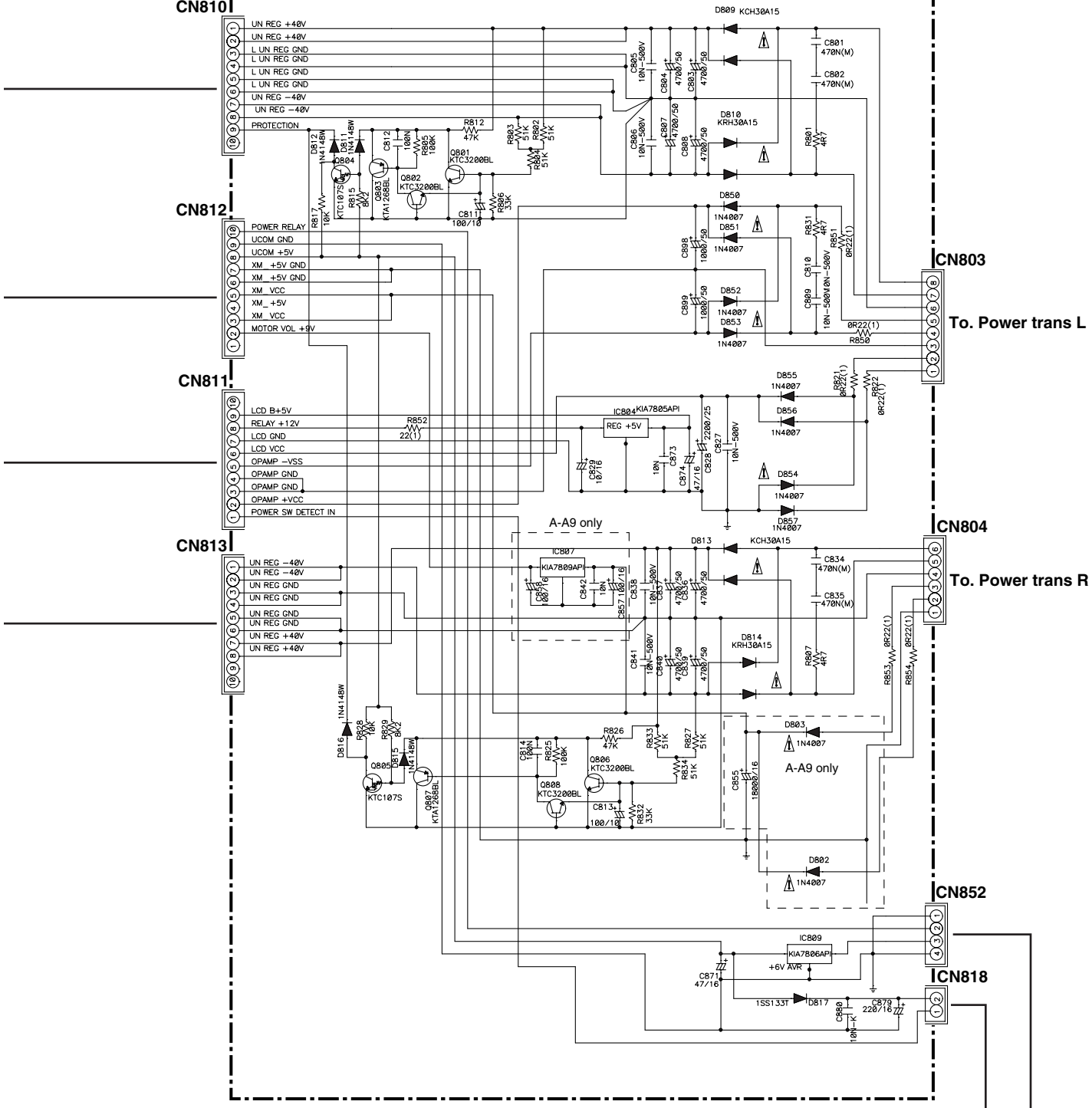
NOTES
1. Resistor values are indicated in ohms unless otherwise specified
[k = 1.000 m = 1.000.000]
2. Capecitor values are indicated in microfarades unless otherwise specified.
[p = micro−microfarades]
3. : These resistor are to be segregated from printed wiring board or other acessible parts.
CAUTION
Safety precaution to be followed during servicing
1] Since those parts marked with are critical parts for safety. use only the one described in the parts list
2] Before returning the set to the customer make appropriate leakage current or resistance measurements to determine the exposed parts are prorerly insulated from the supply circuit.



SCHEMATIC DIAGRAM	PCB PARTS LIST
RLY651	RY651
*	FU0
*	0000

N POWER ASSY

(A-A9:7028065353060-IL)
(A-A6:7028065353010-IL)



SCHEMATIC DIAGRAM	PCB PARTS LIST
J811	R811
J812	R9812
J866	R866
J867	R867

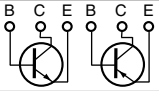
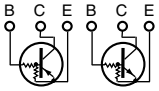
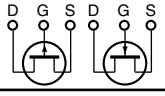
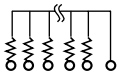
• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

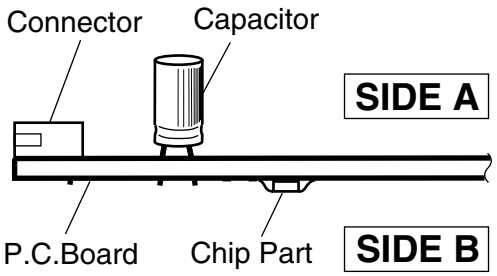
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

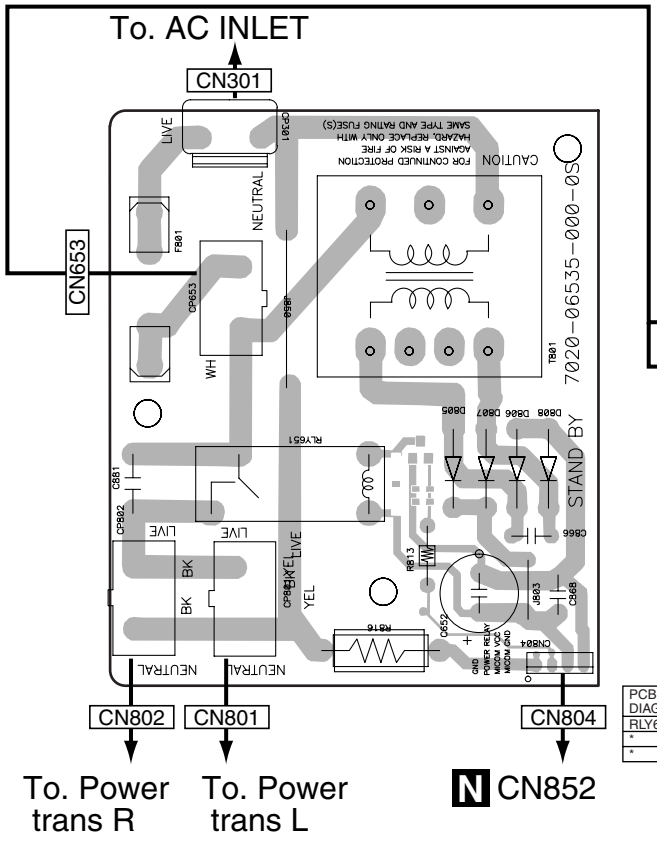


4.1 SUB TRANS and POWER SW ASSYS

SIDE A

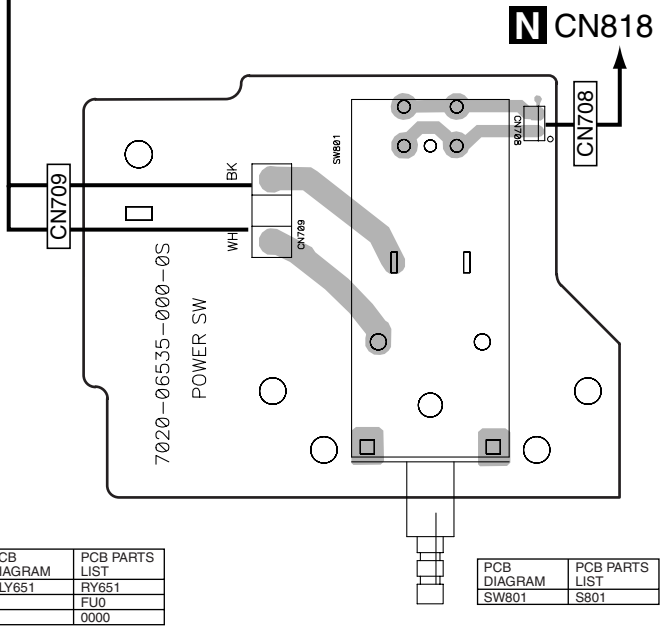
SIDE A

L SUB TRANS ASSY



PCB DIAGRAM	PCB PARTS LIST
RLY651	RY651
*	FU0
*	0000

M POWER SW ASSY

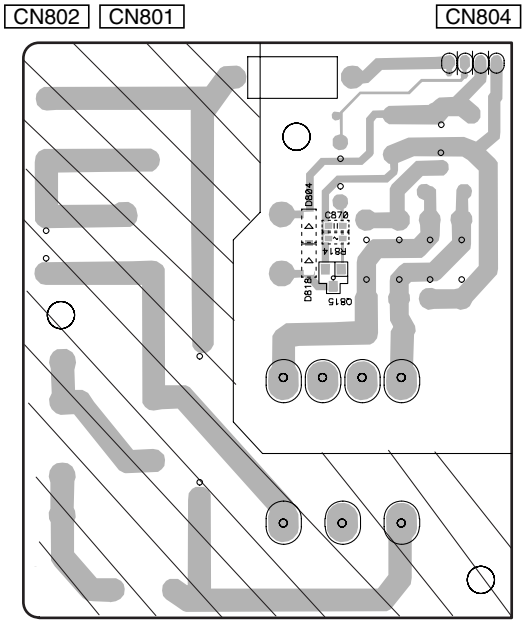


PCB DIAGRAM	PCB PARTS LIST
SW801	S801

SIDE B

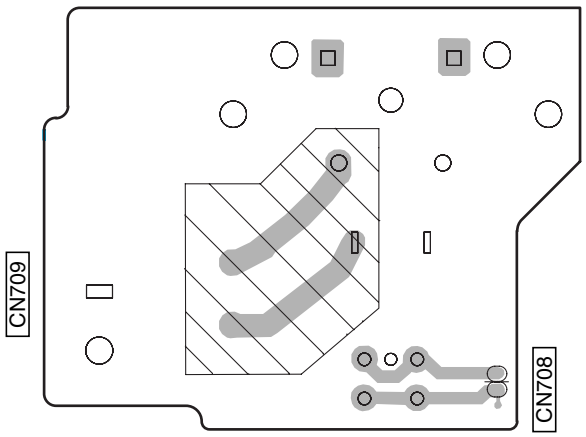
SIDE B

L SUB TRANS ASSY



PCB DIAGRAM	PCB PARTS LIST
RLY651	RY651
*	FU0
*	0000

M POWER SW ASSY



PCB DIAGRAM	PCB PARTS LIST
SW801	S801

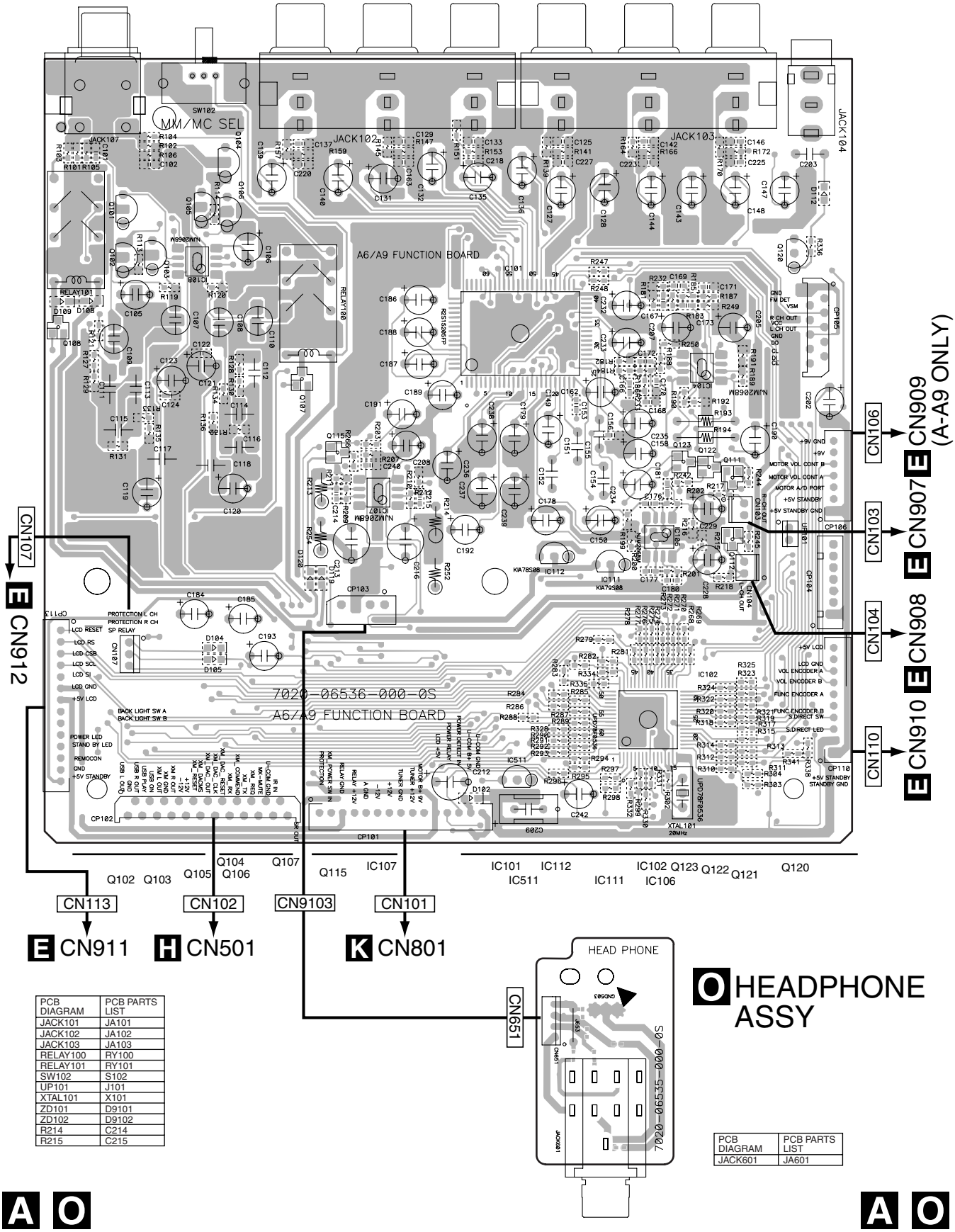
L **M**

L **M**

4.2 FANCTION and HEADPHONE ASSYS

SIDE A **SIDE A**

A FUNCTION ASSY



PCB DIAGRAM	PCB PARTS LIST
JACK101	JA101
JACK102	JA102
JACK103	JA103
RELAY100	RY100
RELAY101	RY101
SW102	S102
UP101	J101
XTAL101	X101
ZD101	D9101
ZD102	D9102
R214	C214
R215	C215

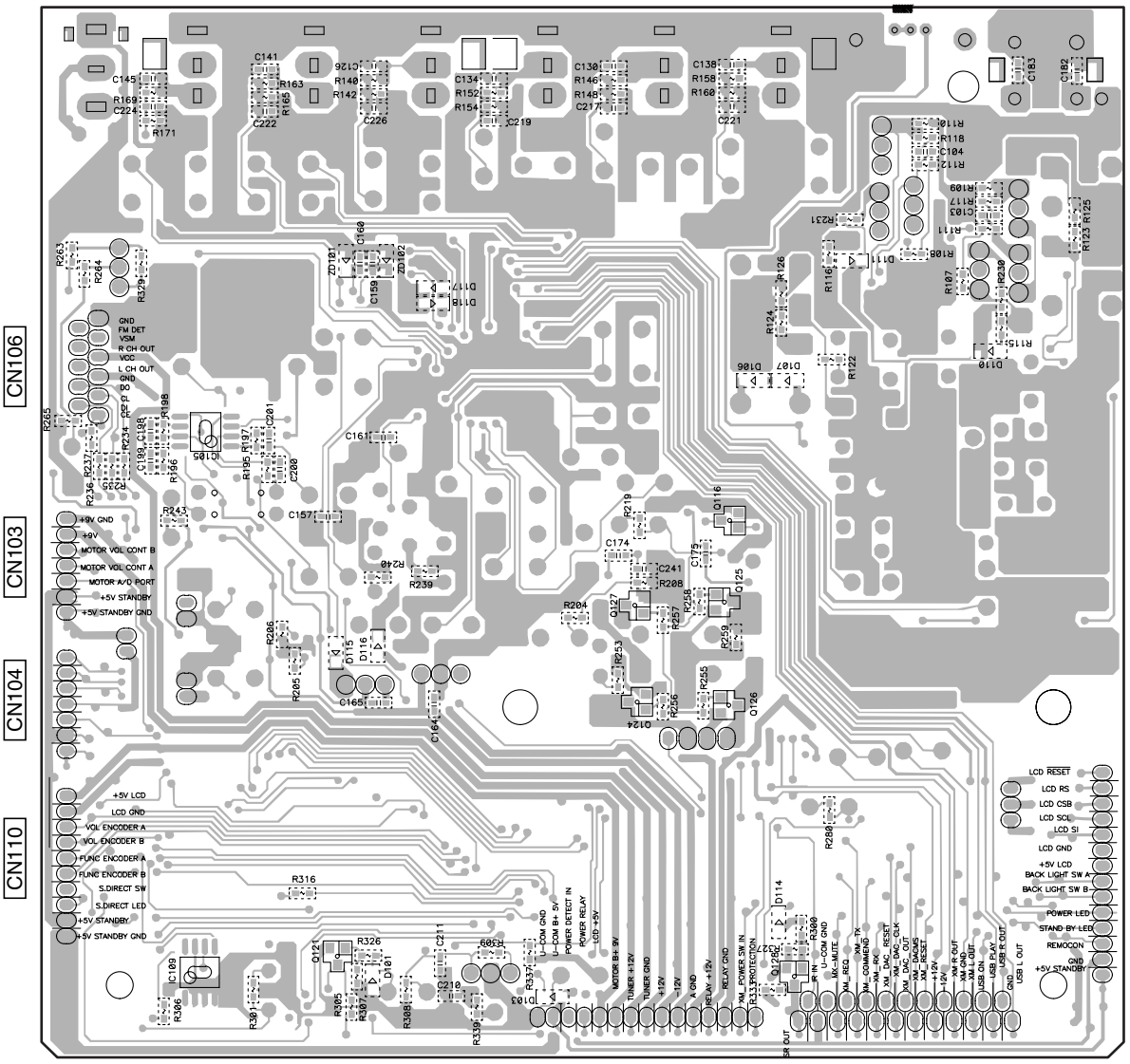
PCB DIAGRAM	PCB PARTS LIST
JACK601	JA601

A O A O

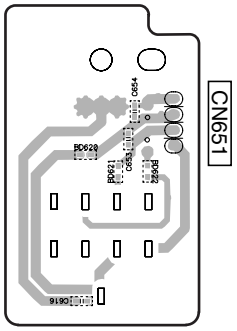
SIDE B

SIDE B

A FUNCTION ASSY



O HEADPHONE ASSY



PCB DIAGRAM	PCB PARTS LIST
JACK601	JA601

PCB DIAGRAM	PCB PARTS LIST
JACK101	JA101
JACK102	JA102
JACK103	JA103
RELAY100	RY100
RELAY101	RY101
SW102	S102
UP101	J101
XTAL101	X101
ZD101	D9101
ZD102	D9102
R214	C214
R215	C215

A O

A O

4.3 FRONT, REMOCON, POWER LED and VR ASSYS

SIDE A

PCB DIAGRAM	PCB PARTS LIST
LED603	D603

SIDE A

F POWER LED ASSY

D REMOCON ASSY

PCB DIAGRAM	PCB PARTS LIST
REMO601	601

PCB DIAGRAM	PCB PARTS LIST
LCD601	V601
LED601	D601
LED604	D604
LED605	D605
LED606	D606
J605	R9605
J656	R9656
J658	R9658
J659	R659
J660	R660

CN682

CN680

CN680

CN681

B FRONT ASSY

LUG 602

LCD
7020-06535-000-0S

CN608

E CN9914

E CN9915

CN607

G VR ASSY

A-A6 only

7020-06535-000-0S

FUNCTION

FUNCTION ENCODER CLICK

VOLUME ENCODER NON CLICK

PCB DIAGRAM	PCB PARTS LIST
LED602	D602
SW601	S601
VR602	S602

B D F G

B D F G

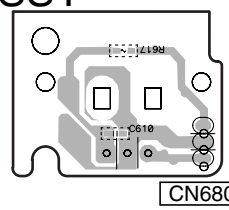
SIDE B

SIDE B

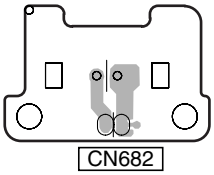
PCB DIAGRAM	PCB PARTS LIST
LED603	D603

D REMOCON ASSY

PCB DIAGRAM	PCB PARTS LIST
REMO601	601

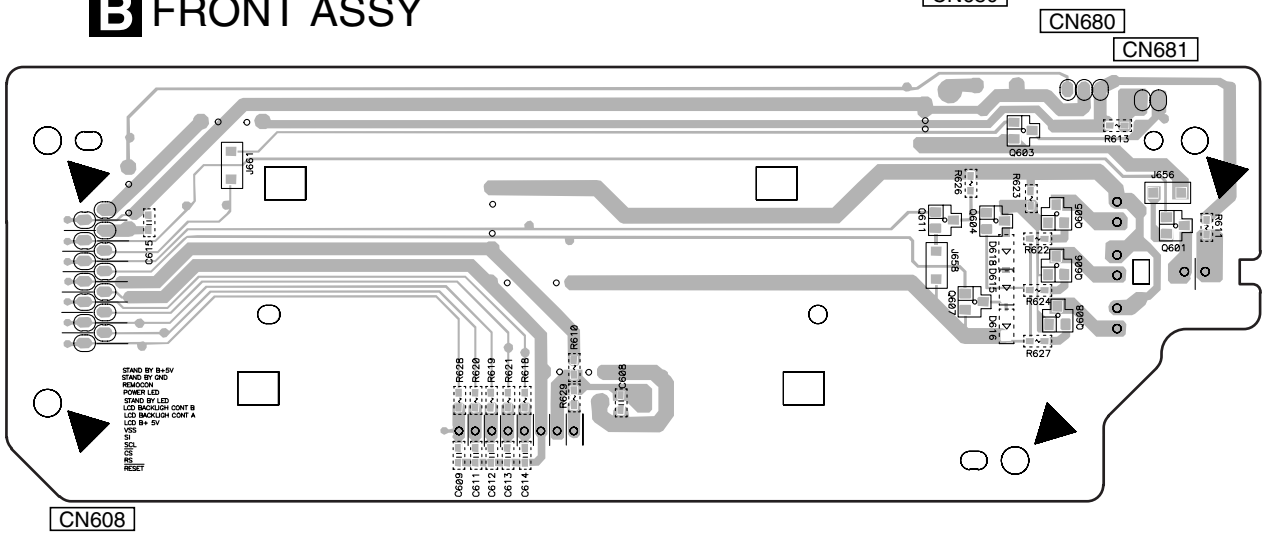


F POWER LED ASSY

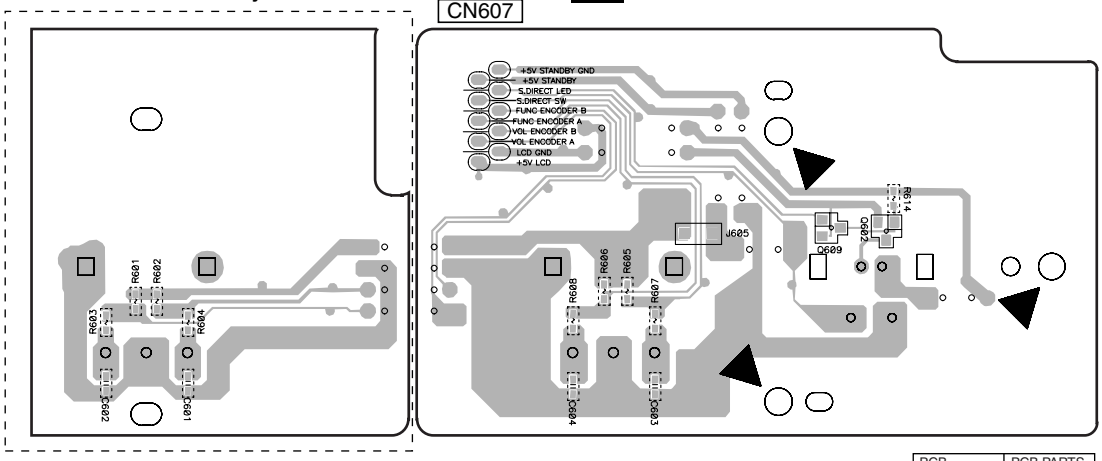


PCB DIAGRAM	PCB PARTS LIST
LCD601	V601
LED601	D601
LED604	D604
LED605	D605
LED606	D606
J605	R9605
J656	R9656
J658	R9658
J659	R659
J660	R660

B FRONT ASSY



G VR ASSY

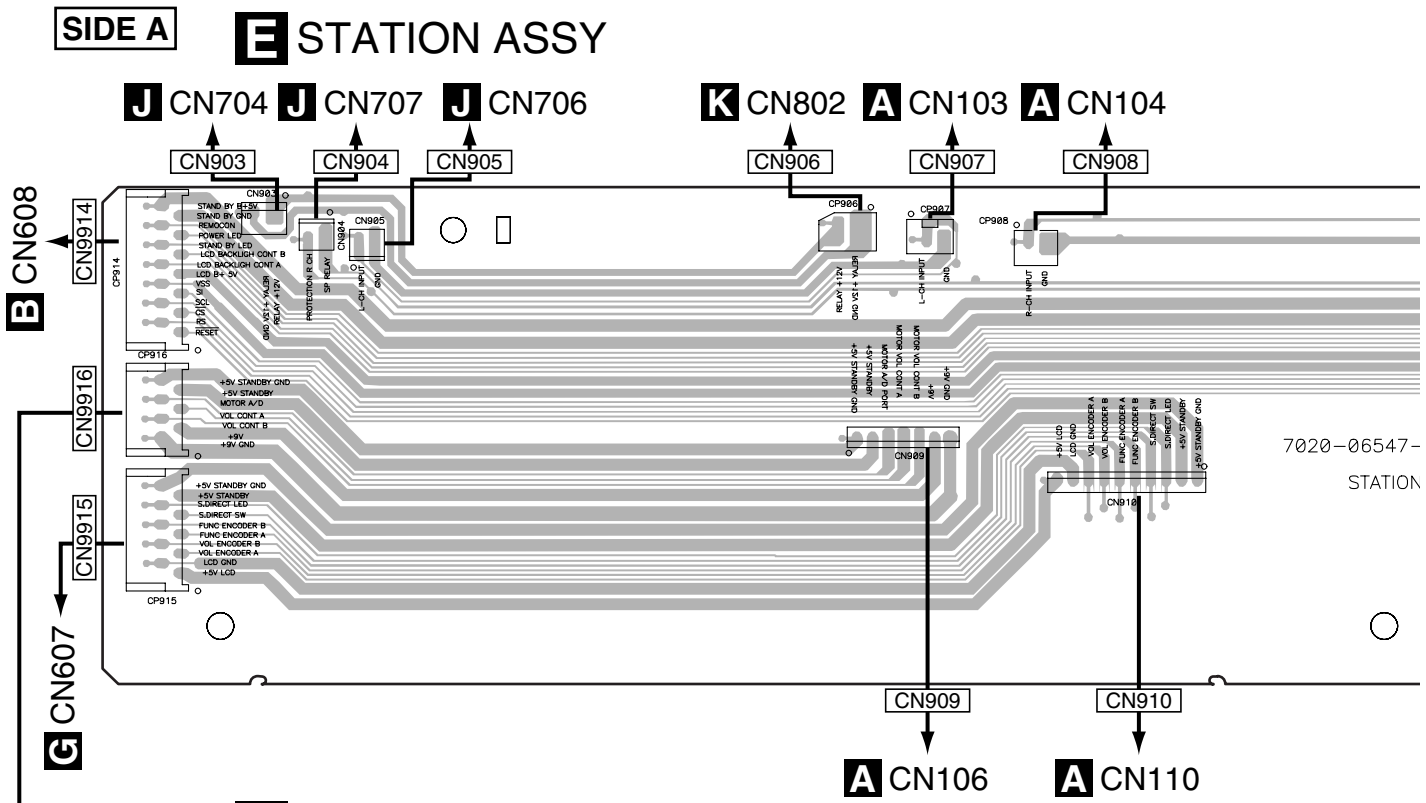


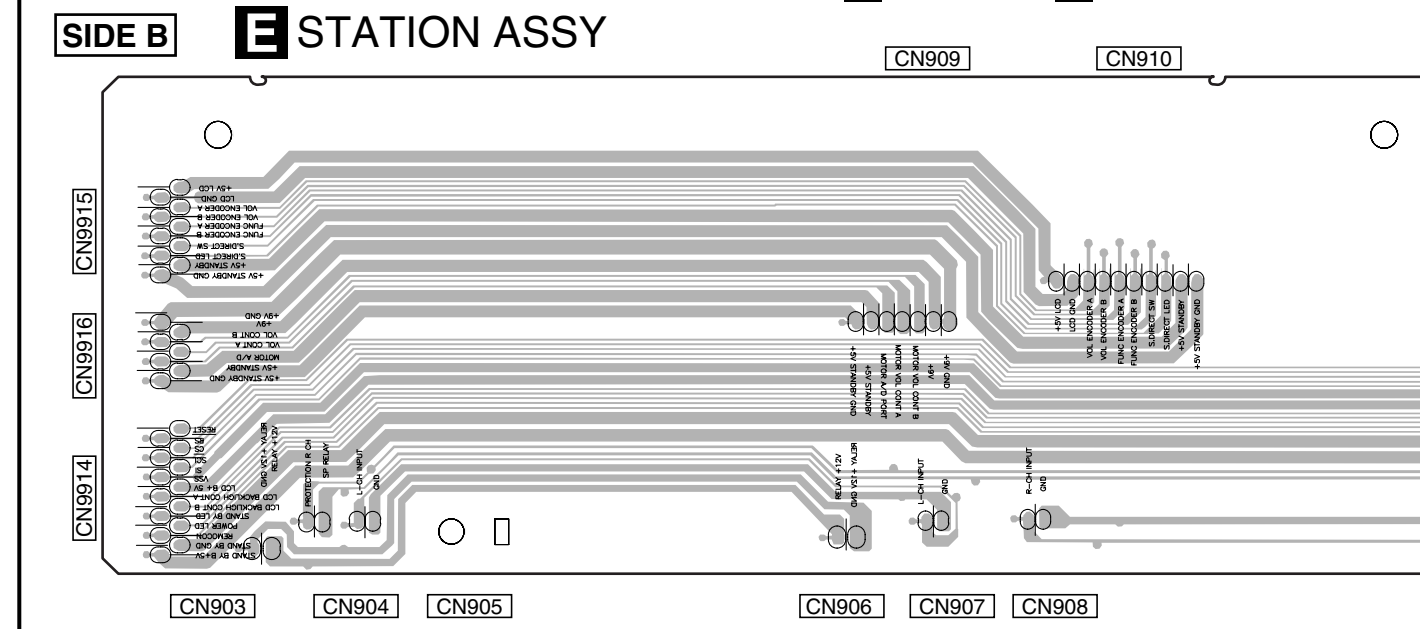
PCB DIAGRAM	PCB PARTS LIST
LED602	D602
SW601	S601
VR602	S602

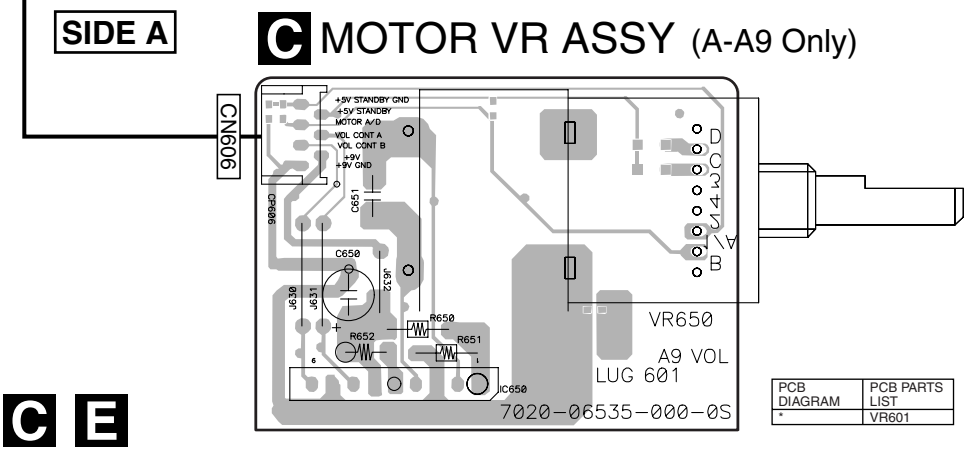
B D F G

B D F G

4.4 STATION and MOTOR VR ASSYS



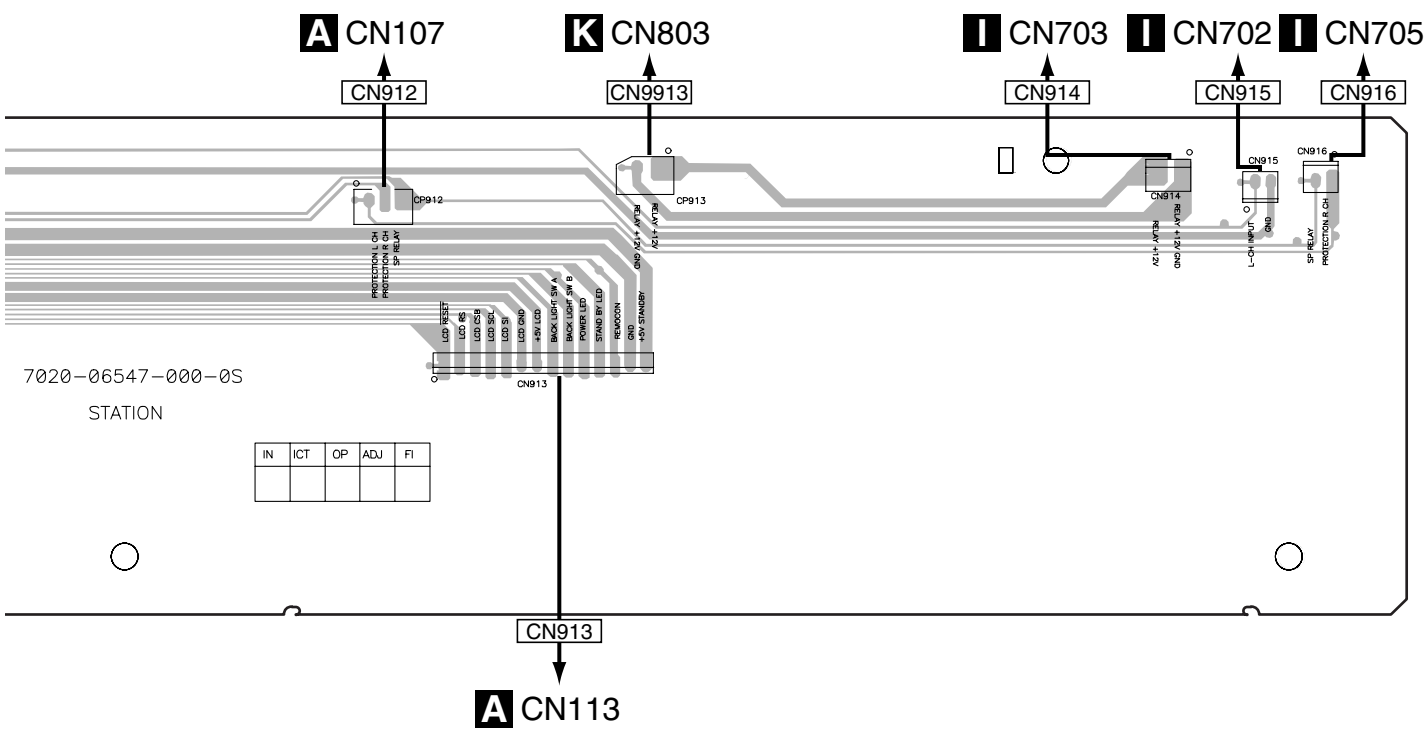




C E

A-A9-J

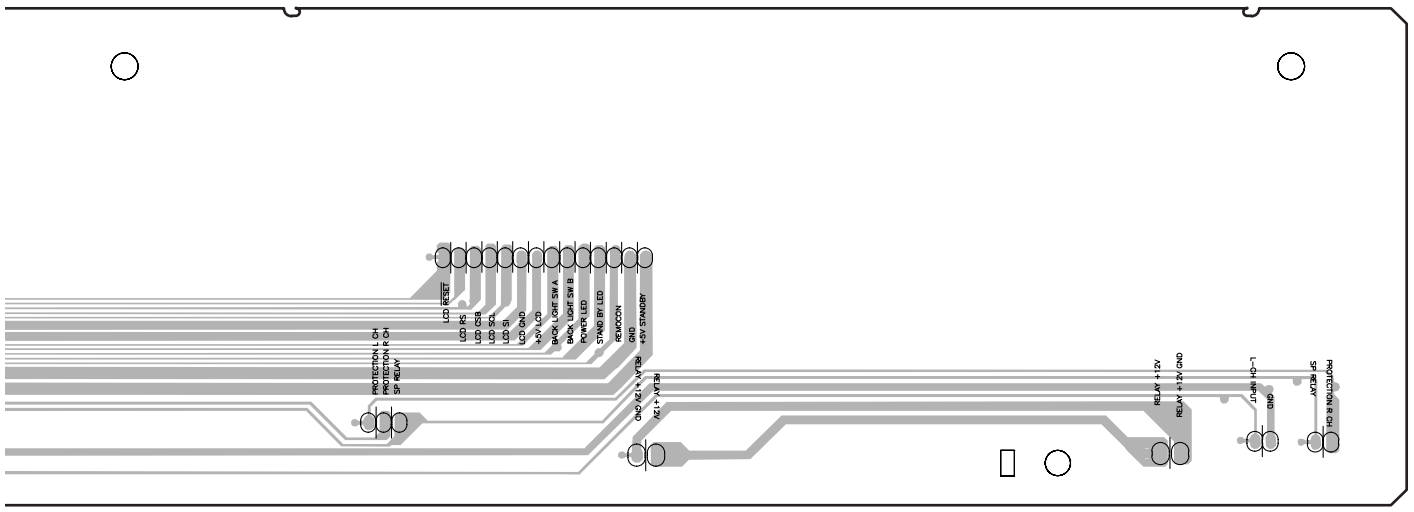
SIDE A



CN913

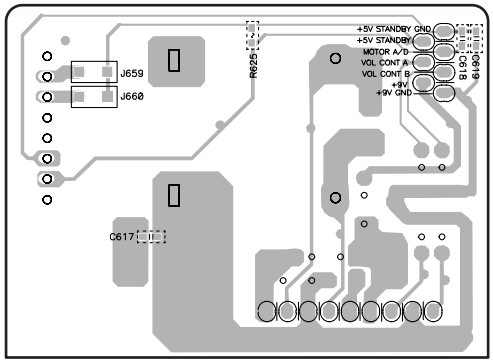
A CN113

SIDE B



CN912 CN9913 CN914 CN914 CN916

C MOTOR VR ASSY (A-A9 Only)



SIDE B

PCB DIAGRAM	PCB PARTS LIST
*	VR601

A-A9-J

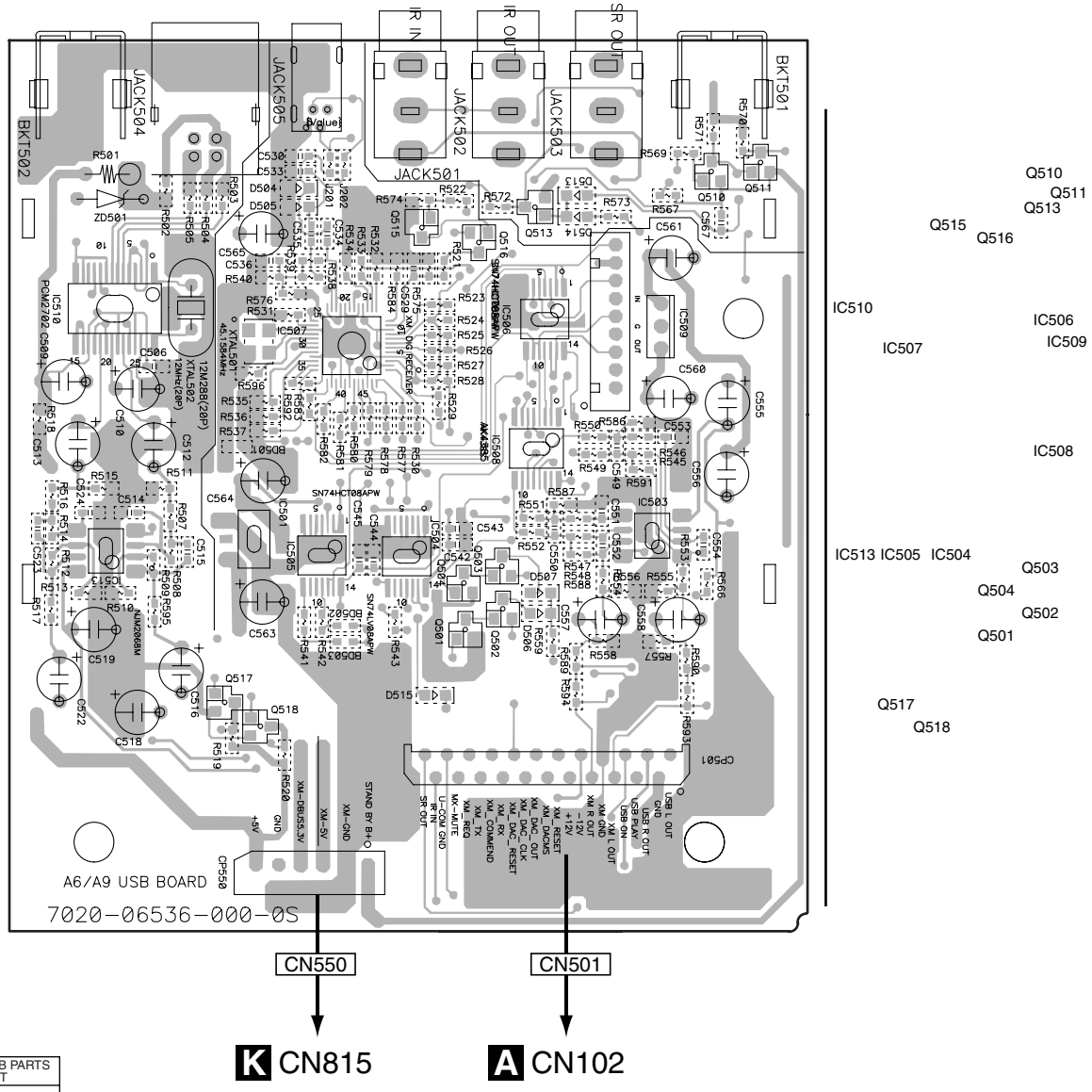
C E

4.5 XM-READY/USB ASSY

SIDE A

SIDE A

H XM READY/USB ASSY



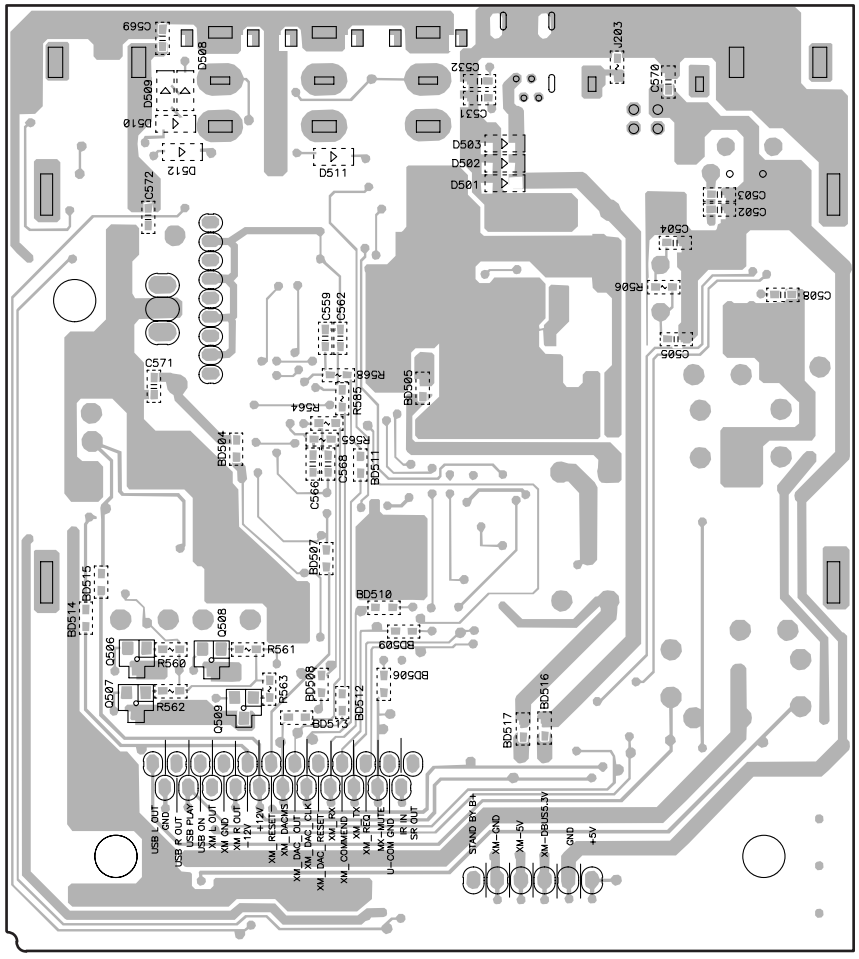
K CN815 **A** CN102

PCB DIAGRAM	PCB PARTS LIST
BKT501	501
BKT502	502
JACK503	JA503
JACK504	JA504
XTAL502	X502
ZD501	D501
GND502	502
GND503	503

SIDE B

SIDE B

H XM READY/USB ASSY



CN501 CN550

PCB DIAGRAM	PCB PARTS LIST
BKT501	501
BKT502	502
JACK503	JA503
JACK504	JA504
XTAL502	X502
ZD501	D501
GND502	502
GND503	503

4.6 AMP LCH, PROTECTION L-CH and SPEAKER L-CH ASSY

SIDE A

SIDE A

PCB DIAGRAM	PCB PARTS LIST
RV701	VR701
RV702	VR702
RELAY701	RY701
ZD701	D9701
ZD702	D9702
ZD703	D9703
ZD704	D9704
LED701	D8701
LED702	D8702
ZD707	D707
ZD708	D708

R SPEAKER L-CH ASSY

A-A6 only

CN911

L-CH SPK701

7020-06547-000-0S

I AMP LCH ASSY

CN711

A-A9 only

To.
Speaker terminal
L OUT

P PROTECTION
L-CH ASSY

CN752 CN770

CN751 CN771

CN753 CN705 CN703

CN702

To. Power trans L

E CN916 **E** CN914

E CN915

Q721 Q714 Q757 Q712 Q756 Q713 Q701 Q702 Q719 Q753 Q703 Q717 Q716 Q706 Q715 Q765 Q771 Q718 Q767 Q766 Q769 Q770 Q720 Q704 Q708 Q705 Q707 Q722

I P R **I P R**

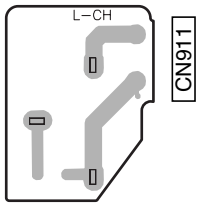
SIDE B

SIDE B

A

R SPEAKER L-CH ASSY

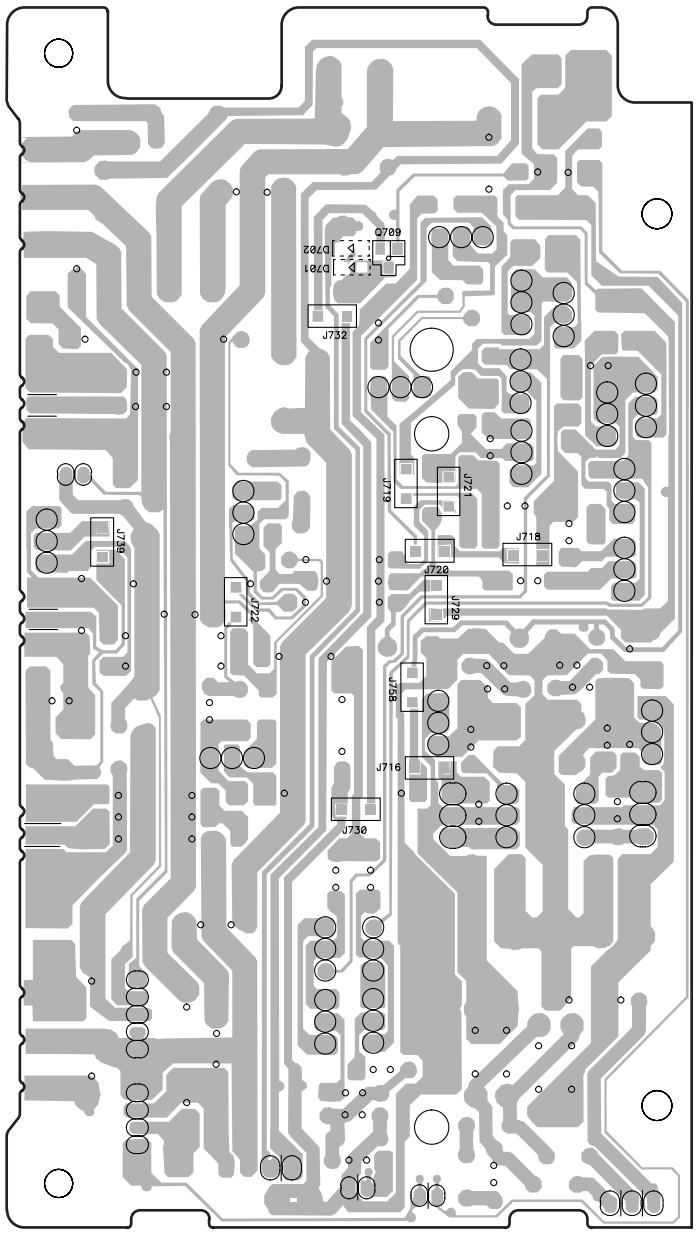
A-A6 only



PCB DIAGRAM	PCB PARTS LIST
RV701	VR701
RV702	VR702
RELAY701	RY701
ZD701	D9701
ZD702	D9702
ZD703	D9703
ZD704	D9704
LED701	D8701
LED702	D8702
ZD707	D707
ZD708	D708

B

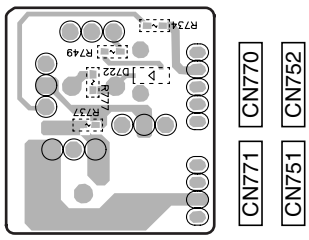
I AMP LCH ASSY



C

D

P PROTECTION L-CH ASSY



E

F

4.7 AMP RCH, PROTECTION R-CH and SPEAKER R-CH ASSY

SIDE A

SIDE A

PCB DIAGRAM	PCB PARTS LIST
RELAY702	RY702
RV703	VR703
RV704	VR704
ZD706	D706
LED703	D703
ZD705	D705
J716	R9716
J718	R9718
J719	R9719
J720	R9720
J721	R9721
J722	R9722
J729	R9729
J730	R9730
J732	R9732
J735	R9735
J739	R9739
J751	R9751
J752	R9752
J754	R9754
J755	R9755
J756	R9756
J757	R9757
J758	R9758
J759	R9759
J760	R9760

S SPEAKER R-CH ASSY

A-A6 only

CN912

R-CH SPK702

7020-06547-000-0S

J AMP RCH ASSY

A-A9 only

To.
Speaker terminal
R OUT

CN712

7020-06535-000-0S

Q731 Q753 Q774 Q752 Q743 Q748 Q749 Q745 Q750 Q751 Q739 Q741 Q740 Q728 Q759 Q762 Q738 Q761 Q760 Q763 Q764 Q754 Q734 Q735 Q730 Q736

Q PROTECTION R-CH ASSY

CN773 CN754 CN772 CN755

CN704 CN706 CN707 CN766

E CN903 E CN904 To. Power trans R

E CN905

J Q S

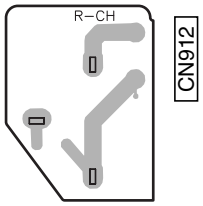
J Q S

SIDE B

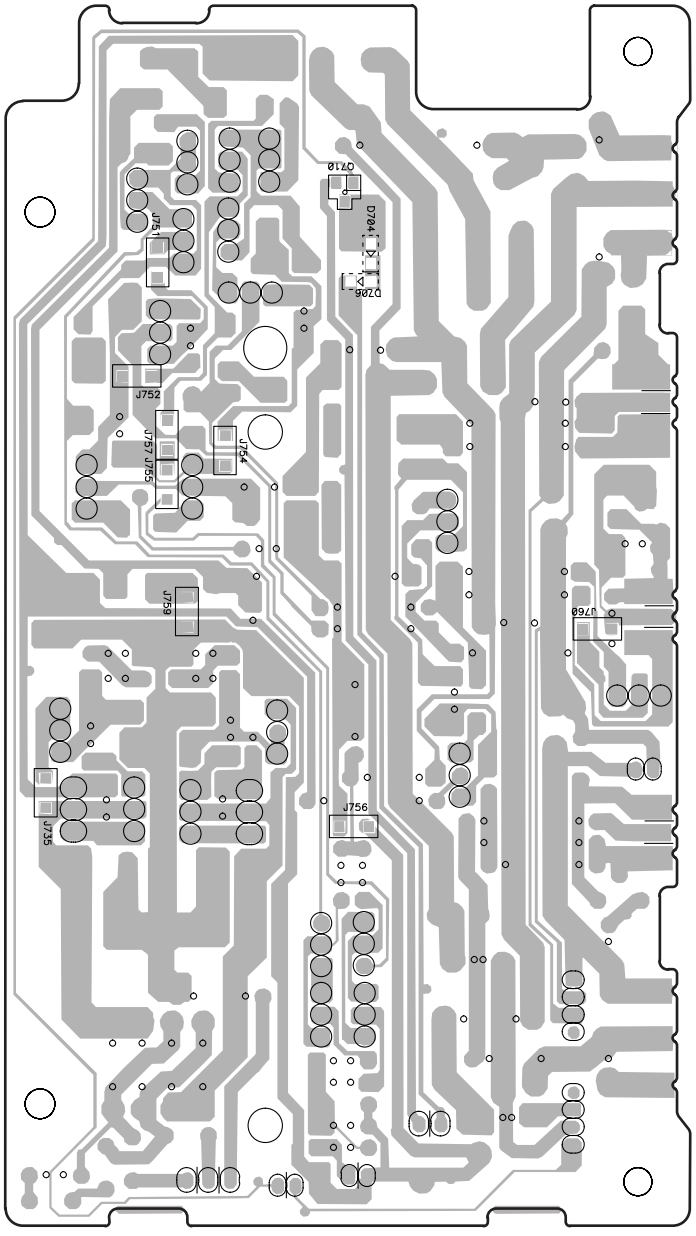
SIDE B

S SPEAKER R-CH ASSY

A-A6 only

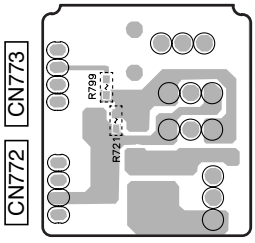


J AMP RCH ASSY



PCB DIAGRAM	PCB PARTS LIST
RELAY702	RY702
RV703	VR703
RV704	VR704
ZD706	D706
LED703	D703
ZD705	D705
J716	R9716
J718	R9718
J719	R9719
J720	R9720
J721	R9721
J722	R9722
J729	R9729
J730	R9730
J732	R9732
J735	R9735
J739	R9739
J751	R9751
J752	R9752
J754	R9754
J755	R9755
J756	R9756
J757	R9757
J758	R9758
J759	R9759
J760	R9760

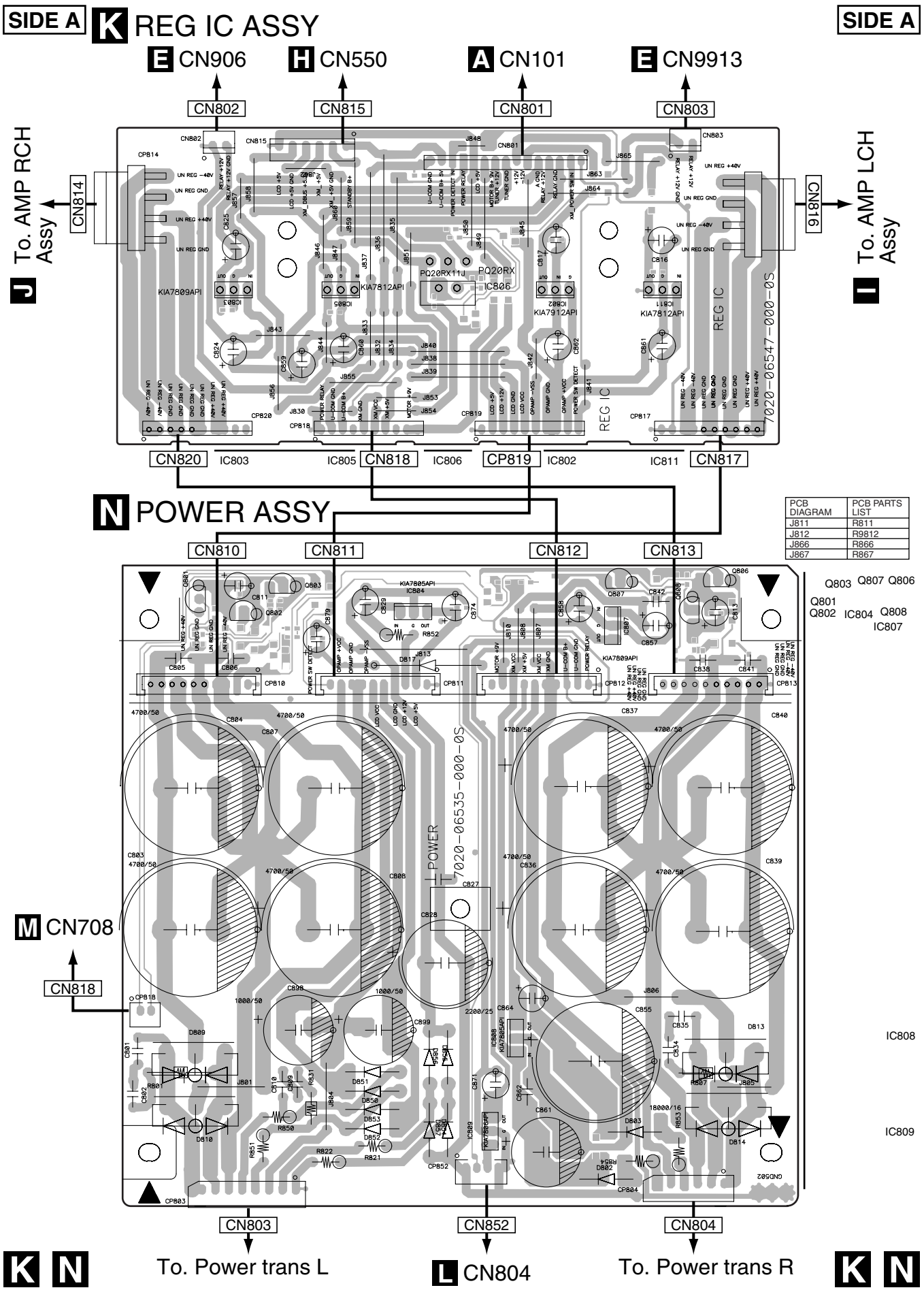
Q PROTECTION R-CH ASSY



J Q S

J Q S

4.8 REG IC and POWER ASSYS

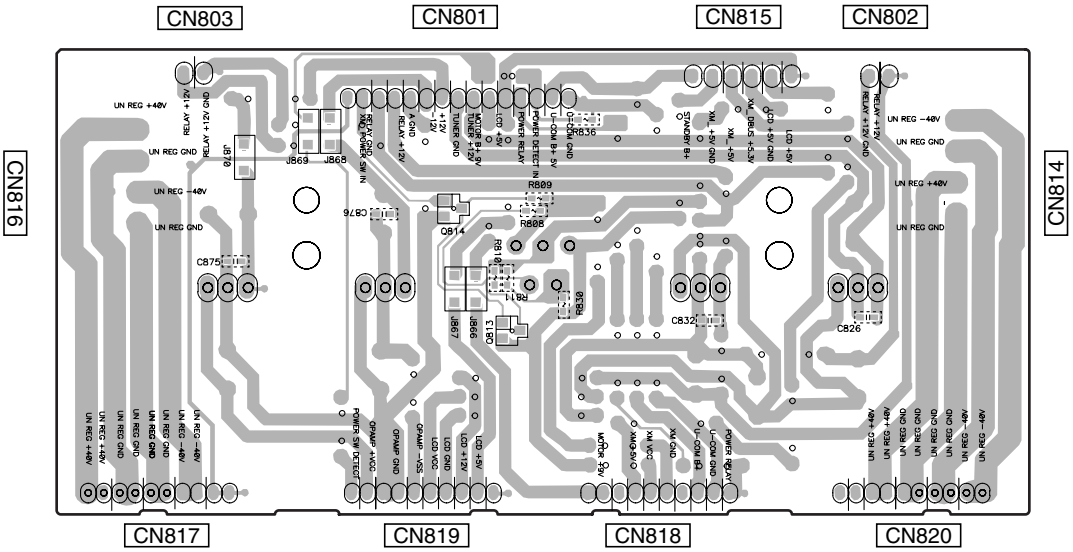


PCB DIAGRAM	PCB PARTS LIST
J811	R811
J812	R9812
J866	R866
J867	R867

SIDE B

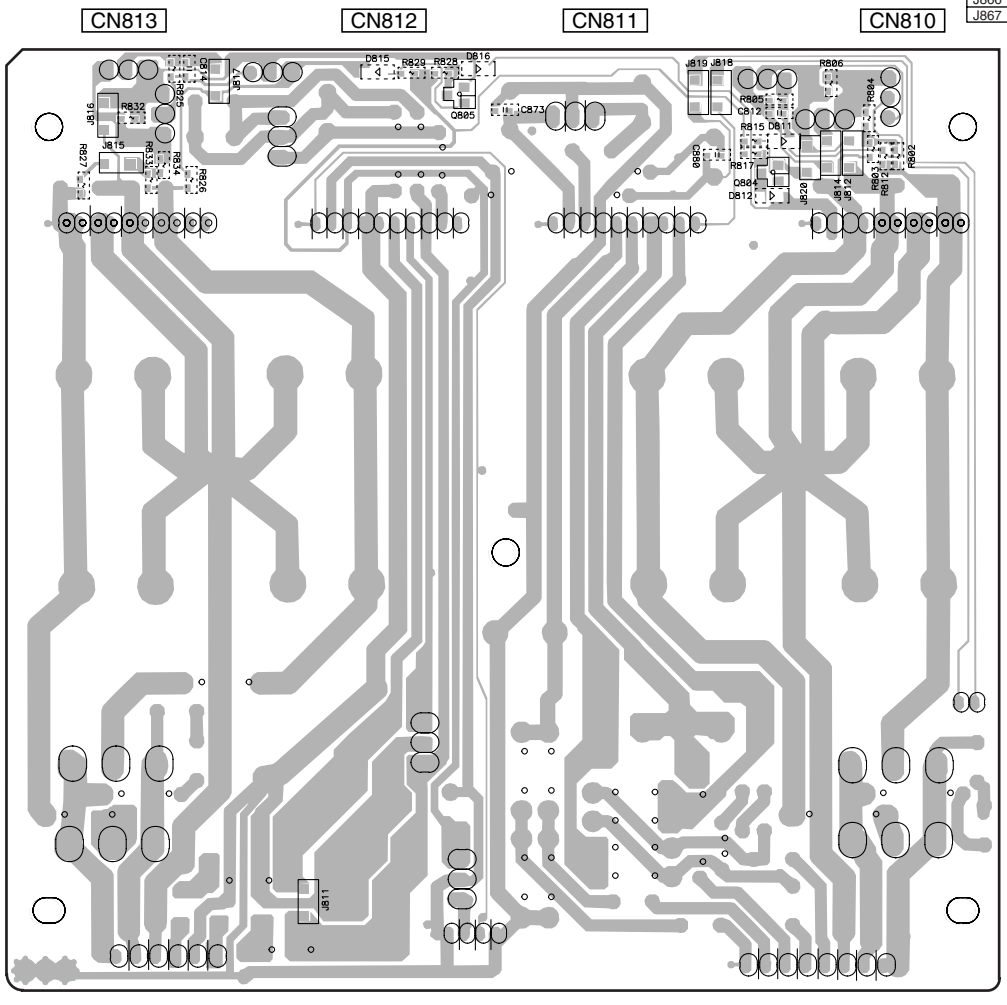
SIDE B

K REG IC ASSY



N POWER ASSY

PCB DIAGRAM	PCB PARTS LIST
J811	R811
J812	R9812
J866	R866
J867	R867



K N

K N

5. PCB PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10[1] → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 x 10[3] → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 x 10[1] → 5621 ..... RN1/4PC 5 6 2 1 F

LIST OF ASSEMBLIES

Mark	Symbol and Description	A-A9-J	A-A6-J
NSP	1..PCB TOTAL ASSY	7025HA0604010-IL	7025HA0603010-IL
	2.SUB TRANS ASSY	702806535A060-IL	702806535A010-IL
	2.HEADPHONE ASSY	702806535B060-IL	702806535B060-IL
	2.AMP LCH ASSY	7028065351010-IL	7028065351010-IL
	2.AMP RCH ASSY	7028065352010-IL	7028065352010-IL
	2.POWER ASSY	7028065353060-IL	7028065353010-IL
	2.FRONT ASSY	7028065354060-IL	7028065354010-IL
	2.MOTOR VR ASSY	7028065355060-IL	Not used
	2.REMOCON ASSY	7028065356060-IL	7028065356010-IL
	2.POWER SW ASSY	7028065357060-IL	7028065357010-IL
	2.POWER LED ASSY	7028065358060-IL	7028065358010-IL
	2.VR ASSY	7028065359060-IL	7028065359010-IL
NSP	1..PCB TOTAL ASSY	7025HA0604011-IL	7025HA0603011-IL
	2.FUNCTION ASSY	7028065361060-IL	7028065361010-IL
	2.XM-READY/USB ASSY	7028065362060-IL	7028065362010-IL
	2.PROTECTION L-CH ASSY	7028065363010-IL	7028065363010-IL
	2.PROTECTION R-CH ASSY	7028065364010-IL	7028065364010-IL
NSP	1..PCB TOTAL ASSY	7025HA0604012-IL	7025HA0603012-IL
	2.STATION ASSY	7028065461020-IL	7028065461010-IL
	2.SPEAKER L-CH ASSY	Not used	7028065462010-IL
	2.SPEAKER R-CH ASSY	Not used	7028065463010-IL
	2.REG IC ASSY	7028065471020-IL	7028065471010-IL

■ CONTRAST OF PCB ASSEMBLIES

B FRONT ASSY

7028065354060-IL and 7028065354010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028065354060-IL	7028065354010-IL
	Q601, Q603, Q604, Q607, Q611	D010221167160-IL	J522107S00210-IL
	STOPPER	4380210081000-IL	Not used

D REMOCON ASSY

7028065356060-IL and 7028065356010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028065356060-IL	7028065356010-IL
	C116	D040100083130-IL	Not used
	C605	Not used	D040100083130-IL

E STATION ASSY

7028065461020-IL and 7028065461010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028065461020-IL	7028065461010-IL
	CN909	L000141070010-IL	Not used
	CN9916	L131100700010-IL	Not used

F POWER LED ASSY

7028065358060-IL and 7028065358010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028065358060-IL	7028065358010-IL
	C653, C654	Not used	D000221167070-IL
	R610	Not used	RS1/16S561J

G VR ASSY

7028065359060-IL and 7028065359010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028065359060-IL	7028065359010-IL
	C601, C602	Not used	D011103777163-IL
	R601, R602	Not used	RS1/16S103J
	R603, R604	Not used	RS1/16S101J
	VR601	Not used	G121162401200-IL

K REG IC ASSY

7028065471020-IL and 7028065471010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028065471020-IL	7028065471010-IL
	IC806	J126201100020-IL	Not used
	Q813, Q814	J522010200210-IL	Not used
	R808, R809	RS1/16S103J	Not used
	R810	RS1/16S432J	Not used
	R811	RS1/16S392J	Not used
	R830	RS1/16S202J	Not used

L SUB TRANS ASSY

Although 702806535A060-IL and 702806535A010-IL are different in part number, they have the same components.

N POWER ASSY

7028065353060-IL and 7028065353010-IL are constructed the same except for the following:

Mark	Symbol and Description	7028065353060-IL	7028065353010-IL
	IC807	J126780900020-IL	Not used
	C842, C862	D00410359D050-IL	Not used
	C855	D040183083001-IL	Not used
	C857, C858	D040101083070-IL	Not used
	R811	RS1/8S0R0J	Not used

■ PCB PARTS LIST FOR A-A9-J UNLESS OTHER WISE NOTED

A FUNCTION ASSY (A-A9-J)

SEMICONDUCTORS

Mark No.	Description	Part No.
IC0109		J000240640010-IL
IC0102		J020780536000-IL
IC0101		J084152050010-IL
IC0104-IC0108		J121206800020-IL
IC0511		J125704200010-IL
IC0112		J126780800190-IL
IC0111		J126790800090-IL
Q0103, Q0106		J5021845F0000-IL
Q0122		J520010100010-IL
Q0115		J520010200210-IL
Q0128		J520015040150-IL
Q0121		J522038750210-IL
Q0107, Q0108, Q0116, Q0123		J522107S00210-IL
Q0111, Q0112, Q0124-Q0127		J5222875B0010-IL
Q0101, Q0102, Q0104, Q0105		J5410369G0010-IL
D0101-D0111, D0115-D0120		K005041480020-IL
D9101, D9102		K06605R14P400-IL

SWITCHES AND RELAYS

Mark No.	Description	Part No.
S0102	SW,SLIDE	G060112011010-IL
RY0100, RY0101	RELAY	G680240202030-IL

CAPACITORS

Mark No.	Description	Part No.
C0113, C0114		D004122287050-IL
C0117, C0118		D004472277050-IL
C0214, C0215		D010101167160-IL
C0101, C0102, C0125, C0126		D010221167160-IL
C0129, C0130, C0133, C0134		D010221167160-IL
C0137, C0138, C0142, C0145, C0146		D010221167160-IL
C0163, C0182, C0183, C0217-C0221		D010221167160-IL
C0223-C0227, C0240, C0241, C1421		D010221167160-IL
C2231		D010221167160-IL

Mark No.	Description	Part No.
	C0159, C0160, C0176, C0177	D010331167160-IL
	C0180, C0181	D010820167160-IL
A	C0122, C0124, C0157, C0161	D011103777160-IL
	C0166, C0167, C0210, C0211	D011103777160-IL
	C0168, C0169, C0199, C0200	D011104577161-IL
	C0103, C0104	D011153777160-IL
	C0153, C0156, C0198, C0201	D011223777160-IL
	C0152, C0154	D020154078050-IL
	C0115, C0116	D020183078060-IL
	C0151, C0155	D020473167050-IL
	C0111, C0112	D020683167060-IL
	C0193	D040010087150-IL
	C0208	D0400R1087050-IL
B	C0119-C0121, C0123, C0149, C0150	D040100087070-IL
	C0178, C0186-C0189, C0191, C0192	D040100087070-IL
	C0205, C0207, C0228, C0229	D040100087070-IL
	C0232-C0235	D040100087070-IL
	C0109, C0110	D040101082090-IL
	C0107, C0108, C0127, C0128	D040220083070-IL
	C0131, C0132, C0135, C0136	D040220083070-IL
	C0139, C0140, C0144, C0147, C0148	D040220083070-IL
	C1441	D040220083070-IL
	C0212	D040221081060-IL
	C0213, C0216	D040221082090-IL
C	C0190, C0242	D0402R2087160-IL
	C0105, C0106	D040470082060-IL
	C0158, C0162, C0179, C0236-C0239	D040470083080-IL
	C0209	D090473904010-IL
	RESISTORS	
	R0193, R0194	C00001046P520-IL
	R0213, R0214	C060022065050-IL
	R0252, R0253	C060033065050-IL
	Other Resistors	RS1/16S###J
D	**OTHERS**	
	X0101 RESONATOR,CERAMIC	E830200010010-IL
	JA0101 TER,RCA 2PIN	G601207BG020Y-IL
	JA0102, JA0103 TER,RCA 6PIN	G603617AG04GY-IL
	CN0107 CN,WIRE	L000141030100-IL
	CN0104 CN,WIRE	L000161020070-IL
	CN0103 CN,WIRE	L000161020080-IL
	CN0106 CN.WAFER 2.0MM	L101220070000-IL
	CN0110 CONNECTOR(10P)	L101220100000-IL
	CN0101, CN0113 CN.WAFER 2.0MM	L101220140000-IL
	CN9104 CN.WAFER 2.0MM	L101530140710-IL
E	CN9103 CN.WAFER 2.5MM	L102526700400-IL
	CN0102 CN.FPC 1.25MM	L131112300010-IL
	J0101 PIN JUMPER	L424000040000-IL

A FUNCTION ASSY (A-A6-J)

SEMICONDUCTORS

	IC0109	J000240640010-IL
	IC0102	J020780536000-IL
	IC0101	J084152050010-IL
	IC0106-IC0108	J121206800020-IL
F	IC0511	J125704200010-IL
	IC0112	J126780800190-IL
	IC0111	J126790800090-IL

Mark No.	Description	Part No.
	Q0103, Q0106	J5021845F0000-IL
	Q0122	J520010100010-IL
	Q0115	J520010200210-IL
	Q0128	J520015040150-IL
	Q0121	J522038750210-IL
	Q0116, Q0123	J522107S00210-IL
	Q0111, Q0112, Q0124-Q0127	J5222875B0010-IL
	Q0101, Q0102, Q0104, Q0105	J5410369G0010-IL
	D0101-D0105, D0110, D0111	K005041480020-IL
	D0115-D0120	K005041480020-IL
	D9101, D9102	K06605R14P400-IL
	CAPACITORS	
	C0113, C0114	D004122287050-IL
	C0117, C0118	D004472277050-IL
	C0214, C0215	D010101167160-IL
	C0101, C0102, C0125, C0126	D010221167160-IL
	C0129, C0130, C0133, C0134	D010221167160-IL
	C0137, C0138, C0142, C0163	D010221167160-IL
	C0182, C0183, C0217-C0221, C0223	D010221167160-IL
	C0226, C0227, C0240, C0241, C1421	D010221167160-IL
	C2231	D010221167160-IL
	C0159, C0160, C0176, C0177	D010331167160-IL
	C0180, C0181	D010820167160-IL
	C0122, C0124, C0157, C0161	D011103777160-IL
	C0166, C0167, C0210, C0211	D011103777160-IL
	C0199, C0200	D011104577161-IL
	C0103, C0104	D011153777160-IL
	C0153, C0156, C0198, C0201	D011223777160-IL
	C0152, C0154	D020154078050-IL
	C0115, C0116	D020183078060-IL
	C0151, C0155	D020473167050-IL
	C0111, C0112	D020683167060-IL
	C0193	D040010087150-IL
	C0208	D0400R1087050-IL
	C0119-C0121, C0123, C0149, C0150	D040100087070-IL
	C0178, C0186-C0189, C0191, C0192	D040100087070-IL
	C0228, C0229	D040100087070-IL
	C0109, C0110	D040101082090-IL
	C0107, C0108, C0127, C0128	D040220083070-IL
	C0131, C0132, C0135, C0136	D040220083070-IL
	C0139, C0140, C0144, C1441	D040220083070-IL
	C0212	D040221081060-IL
	C0213, C0216	D040221082090-IL
	C0190, C0242	D0402R2087160-IL
	C0105, C0106	D040470082060-IL
	C0158, C0162, C0179, C0236-C0239	D040470083080-IL
	C0209	D090473904010-IL
	RESISTORS	
	R0193, R0194	C00001046P520-IL
	R0213, R0214	C060022065050-IL
	R0252, R0253	C060033065050-IL
	Other Resistors	RS1/16S###J
	OTHERS	
	X0101 RESONATOR,CERAMIC	E830200010010-IL
	JA0101 TER,RCA 2PIN	G601207BG020Y-IL
	JA0103 TER,RCA 4PIN	G602617AG020Y-IL
	JA0102 TER,RCA 6PIN	G603617AG04GY-IL
	CN0107 CN,WIRE	L000141030100-IL
	CN0104 CN,WIRE	L000161020070-IL

Mark	No.	Description	Part No.
	CN0103	CN,WIRE	L000161020080-IL
	CN0110	CONNECTOR(10P)	L101220100000-IL
	CN0101, CN0113	CN.WAFER 2.0MM	L101220140000-IL
	CN9104	CN.WAFER 2.0MM	L101530140710-IL
	CN9103	CN.WAFER 2.5MM	L102526700400-IL
	CN0102	CN.FPC 1.25MM	L131112300010-IL
	J0101	PIN JUMPER	L424000040000-IL

B FRONT ASSY

SEMICONDUCTORS

	Q0603, Q0604, Q0607, Q0611	D010221167160-IL
	Q0605, Q0606, Q0608	J522038750210-IL
	D0515-D0517	K005016000010-IL
	D0601	K500032101061-IL
	D0604-D0606	K500059000010-IL

CAPACITORS

	C0609, C0611-C0614, Q0601	D010221167160-IL
	C0615	D010561167160-IL
	C0608	D011103777163-IL
	C0607	D040100083050-IL

RESISTORS

	R9656, R9658, R9812	RS1/8S0R0J
	Other Resistors	RS1/16S###J

OTHERS

	V0601 LCD MODULE	AAV7111
	CN0681 CN.WAFER 2.0MM	L101220020000-IL
	CN0680 CONNECTOR(3P)	L101220030000-IL
	CN0608 CONNECTOR	L131101400010-IL
	0000 SHEET	1210210382000-IL
	0000 HOUSING	3050210051000-IL
	0000 HOUSING	4310212951000-IL
	0000 COVER	4310212961000-IL
	0000 COVER	4380210081000-IL
	0000 STOPPER	5070212313000-IL

C MOTOR VR ASSY(A-A9-J Only)

SEMICONDUCTORS

	IC0650	J127695600010-IL

CAPACITORS

	C0651	D006104597050-IL
	C0617-C0619	D011103777163-IL
	C0650	D040101083070-IL

RESISTORS

	R0650, R0651	C00001036P520-IL
	R0652	C0602R2063050-IL
	R0659, R0660	RS1/8S0R0J
	VR0601 VR,ROTARY MOTOR	C495121400350-IL
	Other Resistors	RS1/16S###J

OTHERS

	CN0606 CN.FPC 1.25MM	L131100700010-IL

D REMOCON ASSY

CAPACITORS

	C0610	D011103777160-IL
	C0116	D040100083130-IL
	All Resistors	RS1/16S###J

OTHERS

	0601 MODULE REMOCON	E940633800000-IL
	CN0680 CN,WIRE	L000800030110-IL

E STATION ASSY

OTHERS

	CN0910 CN,WIRE	L000101100080-IL
	CN0913 CN,WIRE	L000101140070-IL
	CN0909 CN,WIRE	L000141070010-IL
	CN0905 CN,WIRE	L000800020140-IL
	CN0915 CN,WIRE	L000800020150-IL
	CN0903, CN0914 CN,WIRE	L000800020160-IL
	CN0904, CN0916 CN,WIRE	L000800020170-IL
	CN0908 CN.WAFER 2.0MM	L101220020000-IL
	CN0912 CONNECTOR(3P)	L101220030000-IL
	CN0907 N.WAFER 2.0MM	L101530140210-IL
	CN0906, CN9913 CONNECTOR(2P)	L102526700200-IL
	CN9916 CN.FPC 1.25MM	L131100700010-IL
	CN9915 CN.FPC 1.25MM	L131101000020-IL
	CN9914 CONNECTOR	L131101400010-IL

F POWER LED ASSY

SEMICONDUCTORS

	D0603	K500036000080-IL

OTHERS

	CN0682 CN,WIRE	L000800020170-IL
	0000 STOPPER	4380210081000-IL

G VR ASSY

SEMICONDUCTORS

	Q0602	J522010200210-IL
	D0602	K500032101061-IL

SWITCHES AND RELAYS

	S0602	G121162400050-IL
	S0601	G180000270010-IL

CAPACITORS

	C0603, C0604	D011103777163-IL

RESISTORS

	R0609	C00001236P520-IL
	R0612	C00005616P520-IL
	R9605	RS1/8S0R0J
	Other Resistors	RS1/16S###J

OTHERS

	CN0607 CN.FPC 1.25MM	L131101000020-IL
	0000 STOPPER	4380210081000-IL

H XM READY/USB ASSY (A-A9-J)

SEMICONDUCTORS

	IC0510	J042270200010-IL
	IC0513	J121206800020-IL
	Q0513, Q0517, Q0518	J522107S00210-IL

Mark No.	Description	Part No.
	D0511, D0514	K005041480020-IL
	D0501	K06003R344520-IL
	CAPACITORS	
	C0572	C20000006M160-IL
	C0504, C0505	D010300167160-IL
	C0514, C0515, C0523, C0524	D010681167160-IL
	C0569, C0570	D011103777160-IL
	C0502, C0503, C0506, C0508	D011104577161-IL
	C0509, C0510, C0512, C0513, C0516	D040100087070-IL
	C0518, C0519, C0522	D040100087070-IL
	RESISTORS	
	R0501	C060022063050-IL
	Other Resistors	RS1/16S###J
	OTHERS	
	0501, 0502 SHIELD	3070045526010-IL
	X0502 CRYSTAL	E80012R000080-IL
	JA0503 JACK,D3.5	G40130802000Y-IL
	JA0504 CN,PLUG CONTACT	G480670680010-IL
	CN0550 CONNECTOR(6P)	L102526700600-IL
	CN0501 CN.FPC 1.25MM	L131112300010-IL
	0000 SHIELD	3070210286000-IL

H XM READY/USB ASSY (A-A6-J)

	SEMICONDUCTORS	
	Q0513	J522107S00210-IL
	D0511, D0514	K005041480020-IL
	CAPACITORS	
	C0569, C0570	D011103777160-IL
	RESISTORS	
	All Resistors	RS1/16S###J
	OTHERS	
	0501, 0502 SHIELD	3070045526010-IL
	JA0503 JACK,D3.5	G40130802000Y-IL
	CN0550 CONNECTOR(6P)	L102526700600-IL
	CN0501 CN.FPC 1.25MM	L131112300010-IL

I AMP LCH ASSY

	SEMICONDUCTORS	
	Q0720,Q0770	2SA1859A
	Q0719,Q0767	2SC4883A
	Q0701-Q0703,Q0706	2SA970
	Q0769	J5001023Y0050-IL
	Q0718	2SA1145
	Q0766	J5021027Y0020-IL
	Q0709	J522107S00210-IL
	Q0712,Q0755-Q0757	2SC2240
	Q0716,Q0717	2SC2705
	Q0707	2SJ79
	Q0708,Q0713	2SJ103
	Q0705	2SK170
	Q0704,Q0714,Q0765,Q0771	2SK246
	D0711-D0714	K000400700520-IL
	D0701,D0702	K005041480020-IL
	D9701-D9704	K06020R044520-IL
	D8701,D8702	K500036000080-IL
	D0707,D0708	1SS133

Mark No.	Description	Part No.
	COILS AND FILTERS	
	L0701 COIL	D330R15000000-IL
	SWITCHES AND RELAYS	
	RY0701 RELAY	G680120528010-IL
	CAPACITORS	
	C0701,C0703,C0729,C0730	D000150167070-IL
	C0706,C0708	D000330167060-IL
	C0705	D004102277050-IL
	C0942,C0950,C745,C746	D00410359D050-IL
	C0714	D004222277050-IL
	C0753,C0754	D020103167050-IL
	C0710,C0711,C0731,C0732	D020104167050-IL
	C0709	D02122106C010-IL
	C0735,C0736	CEAT101M50
	C0747,C0748	CEAT102M50
	C0733,C0734,C0751,C0752	CEAT220M50
	C0755,C0756	CEAT220M50
	C0702	CEAT470M25
	C0704	CEANP100M16
	C0726	CEANP470M10
	RESISTORS	
	R0703,R0713,R0714	RD1/4PU101J
	R0712	C000015263520-IL
	R0782	C00001556P520-IL
	R0704,R0708	RD1/4PU220J
	R0775	RD1/4PU221J
	R0718	RD1/4PU222J
	R0717	RD1/4PU223J
	R0791,R0793	RD1/4PU334J
	R0715	RD1/4PU334J
	R0711	C000047063520-IL
	R0705,R0706	RD1/4PU470J
	R0722	RD1/4PU471J
	R0716	RD1/4PU472J
	R0707	RD1/4PU473J
	R0792,R0794	RD1/4PU681J
	R0899	C0004R706P520-IL
	R0735,R0736	C060010065050-IL
	R0723,R0724	C060022063050-IL
	R0701,R0702,R0709,R0710	C060022163050-IL
	R0719,R0720	C060022163050-IL
	R0725,R0726	C060033065050-IL
	R0727,R0728	C0604R7063050-IL
	R0819,R0820	C060R22065050-IL
	R0729,R0730	C060R22066050-IL
	R9716,R9718-R9722,R9729,R9730	RS1/8S0R0J
	R9732,R9739,R9758	RS1/8S0R0J
	VR0701 VR,SEMI CARBON MOLD	C541202115000-IL
	VR0702 VR,SEMI CARBON MOLD	C541503115000-IL
	OTHERS	
	CN0000 CN,WIRE	L000281040050-IL
	CN0751 CONNECTOR(4P)	L101100040410-IL
	CN0752 CN.WAFER 2.0MM	L101100040510-IL
	CN0705,CN0713 CN.WAFER 2.0MM	L101220020000-IL
	CN0702 CN.WAFER 2.0MM	L101530140210-IL
	CN0703 CONNECTOR(2P)	L102526700200-IL
	CN0753 CONNECTOR(3P)	L102526700300-IL

Mark No.	Description	Part No.
CN0711	CONNECTOR	L108202000220-IL

J AMP RCH ASSY

SEMICONDUCTORS

Q0754,Q0764	2SA1859A
Q0751,Q0761	2SC4883A
Q0743, Q0749, Q0750, Q0752	2SA970
Q0763	J5001023Y0050-IL
Q0738	2SA1145
Q0760	J5021027Y0020-IL
Q0744, Q0745, Q0748, Q0753	2SC2240
Q0728, Q0741	2SC2705
Q0610	J522107S00210-IL
Q0730	2SJ74
Q0734, Q0739	2SJ103
Q0736	2SK170
Q0735, Q0746, Q0759, Q0762	2SK246
D0709, D0710	1SS133
D0715-D0718	K000400700520-IL
D0704, D0706	K005041480020-IL
D9705, D9707, D9708, D9706	K06020R044520-IL
D8703, D8704	K500036000080-IL

COILS AND FILTERS

L0702 COIL	D330R15000000-IL

SWITCHES AND RELAYS

RY0702 RELAY	G680120528010-IL

CAPACITORS

C0719, C0722, C0741, C0742	D000150067050-IL
C0720, C0721	D000330167060-IL
C0728	D004102277050-IL
C0713, C0757	D00410359D050-IL
C0727	D004222277050-IL
C0765, C0768	D020103167050-IL
C0717, C0723, C0739, C0740	D020104167050-IL
C0715	D02122106C010-IL
C0737, C0738	CEAT101M50
C0759, C0760	CEAT102M50
C0743, C0744, C0763, C0764	CEAT220M50
C0766, C0767	CEAT220M50
C0718	CEAT470M25
C0724	CEANP100M16
C0725	CEANP470M10

RESISTORS

R0747, R0765, R0780	RD1/4PU101J
R0739	C000015263520-IL
R0787	C00001556P520-IL
R0761, R0762	RD1/4PU220J
R0766	RD1/4PU221J
R0768	RD1/4PU222J
R0738	RD1/4PU223J
R0796, R0797	RD1/4PU334J
R0748	RD1/4PU334J
R0740	C000047063520-IL
R0746, R0760	RD1/4PU470J
R0731	RD1/4PU471J
R0750	RD1/4PU472J
R0785	RD1/4PU473J
R0795, R0798	RD1/4PU681J
R0784	C0004R706P520-IL
R0757, R0758	C060010065050-IL
R0751, R0773	C060022063050-IL
R0745, R0763, R0764, R0767, R0769	C060022163050-IL
R0786	C060022163050-IL
R0752, R0772	C060033065050-IL
R0754, R0790	C0604R7063050-IL
R0823, R0824	C060R22065050-IL
R0755, R0774	C060R22066050-IL
R9735, R9751, R9752, R9754-R9757	RS1/8S0R0J
R9759, R9760	RS1/8S0R0J
VR0704 VR,SEMI CARBON MOLD	C541202115000-IL
VR0703 VR,SEMI CARBON MOLD	C541503115000-IL

OTHERS

CN0000 CN,WIRE	L000281040060-IL
CN0754, CN0755 CONNECTOR(4P)	L101100040410-IL
CN0707, CN0710 CN.WAFER 2.0MM	L101220020000-IL
CN0706 CN.WAFER 2.0MM	L101530140210-IL
CN0704 CONNECTOR(2P)	L102526700200-IL
CN0766 CONNECTOR(3P)	L102526700300-IL
CN0712 CONNECTOR	L108202000220-IL

K REG IC ASSY

SEMICONDUCTORS

IC0806	J126201100020-IL
IC0803	J126780900020-IL
IC0805, IC0811	J126781200040-IL
IC0802	J126791200060-IL
Q0813, Q0814	J522010200210-IL

CAPACITORS

C0826, C0832, C0875, C0876	D011103597160-IL
C0816, C0817, C0824, C0825	D040470084070-IL
C0859-C0862	D040470084070-IL

RESISTORS

R0866, R0867	RS1/8S0R0J
Other Resistors	RS1/16S###J

OTHERS

CN0801 CN,WIRE	L000101140070-IL
CN0815 CN,WIRE	L000141060020-IL
CN0802, CN0803 CN,WIRE	L000600020040-IL
CN0810-CN0813 CN.WAFER 2.0MM	L101100031010-IL
CN0814, CN0816 CN.WAFER 3.96MM	L104359780420-IL
0000 HEAT SINK	2120211008000-IL
0000 SCREW	B020030081B10-IL

L SUB TRANS ASSY

SEMICONDUCTORS

Q0815	J522038750210-IL
D0805-D0808	K000400700520-IL
D0804, D0818	K005041480020-IL

SWITCHES AND RELAYS

RY0651 RELAY	G680090502010-IL

CAPACITORS

C0868	D004103277050-IL
C0866	D00410359D050-IL

Mark No.	Description	Part No.
	C0881	D00847208H010-IL
	C0870	D011102777160-IL
	C0652	D040471083080-IL
	RESISTORS	
	R0813	C00004726P520-IL
	Other Resistors	RS1/16S###J
	OTHERS	
	⚠T0801 POWER TRANS	8200280150330-IL
	⚠FU0000 FUSE(T4A)	AEK1060
	F0651, F0801 HOLDER,FUSE CLIP	G645000050010-IL
	CN0804 CN,WIRE	L000351040100-IL
	CN0301 CONNECTOR	L108202000220-IL
	CN0653 CN.WAFER 7.92MM	L108353280260-IL
	CN0802 CN.WAFER 7.92MM	L108353280270-IL
	CN0801 CN.WAFER 7.92MM	L108353280290-IL
	0000 LABEL	5507000000630-IL

M POWER SW ASSY

	SWITCHES AND RELAYS	
	⚠S0801 POWER SWITCH	VSA1005
	OTHERS	
	CN0709 CN,WIRE	L000121020220-IL
	CN0708 CN,WIRE	L000301020060-IL

N POWER ASSY

	SEMICONDUCTORS	
	IC0804	J126780500110-IL
	IC0809	J126780600130-IL
	IC0807	J126780900020-IL
	Q0804,Q805	J522107S00210-IL
	Q0803,Q807	J5001268B0050-IL
	Q0801,Q802,Q0806,Q808	J5023200B0050-IL
	D0817	1SS133
	D0802.D0803,D0850-D0857	K000400700520-IL
	D0811.D0812,D0815,D0816	K005041480020-IL
	D0809, D0813	K120301500010-IL
	D0810, D0814	K120301500020-IL
	CAPACITORS	
	C0805, C0806, C0809, C0810, C0827	D00410359D050-IL
	C0838, C0841, C0842, C0862	D00410359D050-IL
	C0812,C0814,C0873, C0880	D011103777163-IL
	C0801, C0802, C0834, C0835	D020474069050-IL
	C0811,C0813	D040101082090-IL
	C0829	D040100083050-IL
	C0857, C0858	D040101083070-IL
	C0898, C0899	D040102087010-IL
	C0855	D040183083001-IL
	C0879	D040221083110-IL
	C0828	D040222084030-IL
	C0871, C0874	D040470083080-IL
	C0803, C0804, C0807, C0808	D046472087000-IL
	C0836, C0837, C0839, C0840	D046472087000-IL
	RESISTORS	
	R0801, R0807, R0831	C0004R706P520-IL
	R0852	C060022065060-IL
	R0821, R0822, R0850, R0851	C060R22065050-IL
	R0853, R0854	C060R22065050-IL
	R0811-R820	RS1/8S0R0J
	Other Resistors	RS1/16S###J
	OTHERS	
	0502 TERMINAL	3790040886000-IL
	CN0810-CN0813 CN.WAFER 2.0MM	L101100041010-IL
	CN0818 CN.WAFER 2.0MM	L101220020000-IL
	CN0852 CN.WAFER 2.0MM	L101220040000-IL
	CN0804 CONNECTOR(6P)	L102526700300-IL
	CN0803 CN.WAFER 2.5MM	L102526700600-IL

O HEADPHONE ASSY

	CAPACITORS	
	C0653,C0654	D010221167160-IL
	C0616	D011103777163-IL
	OTHERS	
	0503 TERMINAL	3790040886000-IL
	JA0601 JACK,D6.5	G402PJ612AG0Y-IL
	CN0651 CN,WIRE	L000501040040-IL

P PROTECTION L-CH ASSY

	SEMICONDUCTORS	
	Q0727	J5000992F0050-IL
	Q0723,Q0725,Q0726	J5021845F0000-IL
	D0721,D0722	K005041480020-IL
	D0710	K06605R14P400-IL
	CAPACITORS	
	C0712,C0750	CEAT101M10
	RESISTORS	
	R0733,R0781	RS1/8S0R0J
	Other Resistors	RS1/16S###J
	OTHERS	
	CN0771 CONNECTOR(4P)	L101100030410-IL
	CN0770 CN.WAFER 2.0MM	L101100030510-IL

Q PROTECTION R-CH ASSY

	SEMICONDUCTORS	
	Q0733	J5000992F0050-IL
	Q0724,Q0729,Q0742	J5021845F0000-IL
	D0719,D0720	K005041480020-IL
	D0709	K06605R14P400-IL
	CAPACITORS	
	C0716,C0749	CEAT101M10
	RESISTORS	
	All Resistors	RS1/16S###J
	OTHERS	
	CN0754,CN0755 CONNECTOR(4P)	L101100030410-IL

R SPEAKER L-CH ASSY (A-A6-J Only)

	OTHERS	
	JA0701 TER,BOARD SCREW 2P	G611202H0100Y-IL

Mark	No.	Description	Part No.
	CN0911	CN,WIRE	L000101030230-IL

S SPEAKER R-CH ASSY (A-A6-J Only)

OTHERS

	JA0000	TER,BOARD SCREW 2P	G611202H0100Y-IL
	CN0912	CN,WIRE	L000101030230-IL

6. ADJUSTMENT

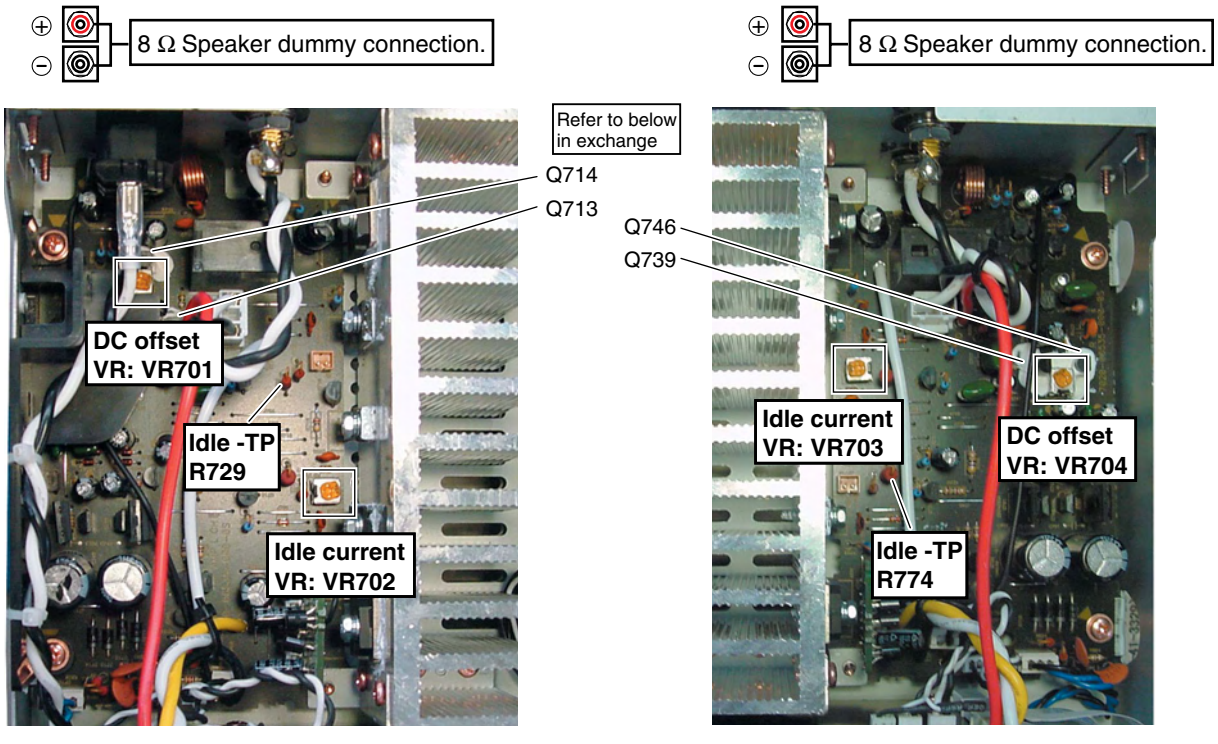
6.1 Idle Current and DC offset Adjustment

1. Idle Current Adjustment

- **Measurement Points:** AMP Lch Assy : R729
  AMP Rch Assy : R774
- **Adjustment Points:** AMP Lch Assy : VR702
  AMP Rch Assy : VR703
- **Procedure**
  ① Turn on the power
  ② Connect a digital voltmeter to both ends of resistor of the measurement point. (70 mV of AMP Lch: R729 and AMP Rch: R774).
  ③ Perform aging for more than five minute.
  ④ Slowly turn the adjustment VR clockwise so that the voltage becomes in the readjustment of 60 mV
- **Adjustment Point and Measurement Points**.... see fig1.

2. DC Offset Adjustment

- **Measurement Points:** AMP Lch Assy : SP terminal
  AMP Rch Assy : SP terminal
- **Adjustment Points:** AMP Lch Assy : VR701
  AMP Rch Assy : VR704
- **Procedure**
  ① The voltage of SP terminal is adjusted to 0 ± 10 mV. (8 Ω Speaker dummy connection)
- **Adjustment Point and Measurement Points**.... see fig1.



I AMP Lch Assy

[fig 1.]

J AMP Rch Assy

Caution when transistors (Q713, Q714, Q739 and Q746) are replaced

Please cover the leads of the transistors at Silicon bond for the variation prevention of DC Offset when you have exchanged transistors.

7. GENERAL INFORMATION

7.1 TROUBLE SHOOTIG

FUSE F801 is blown.	→ Check whether D809, D810, D813 or D814 is damaged.
LCD BACK LIGHTING is not lit.	→ Check whether +5V is output at OUT PUT of IC804 REG IC. Check the voltage drop at resistor R852 22Ω. Check the voltage drops at resistors R821, R822 0.22Ω.
MICOM is not functioning.	→ Check whether +6V is output at OUT PUT of IC809. Check whether XTAL101 is oscillating properly. Check whether RESET IC of IC511 is functioning properly.
When SPEAKER PROTECTION is engaged	Check whether POWER TR is functioning properly. Check whether R730, R729 0.22Ω of L-CH and R774, R755 0.22Ω of R-CH are damaged. Check whether + power supply and - power supply are supplied.
ELECTRONIC VOLUME is not functioning.	→ Check whether +8V is output at OUT PUT of IC112, and whether -8V is output at OUT PUT of IC111. Check whether data is input at PIN42, 43 of IC101.
When there is no sound	→ Check the operation status of Q111, Q112 MUTE TR.
HEAT SINK is overheated.	Check whether IDLE is adjusted at 52mv+/-10mV without load.
MOTOR VOLUME is not functioning.	→ Check whether +9V is output at OUT PUT of IC807. Check whether MOTOR DRIVE IC of IC650 is functioning properly.

7.2 SPECIFICATION OF PROTECTIVE OPERATION

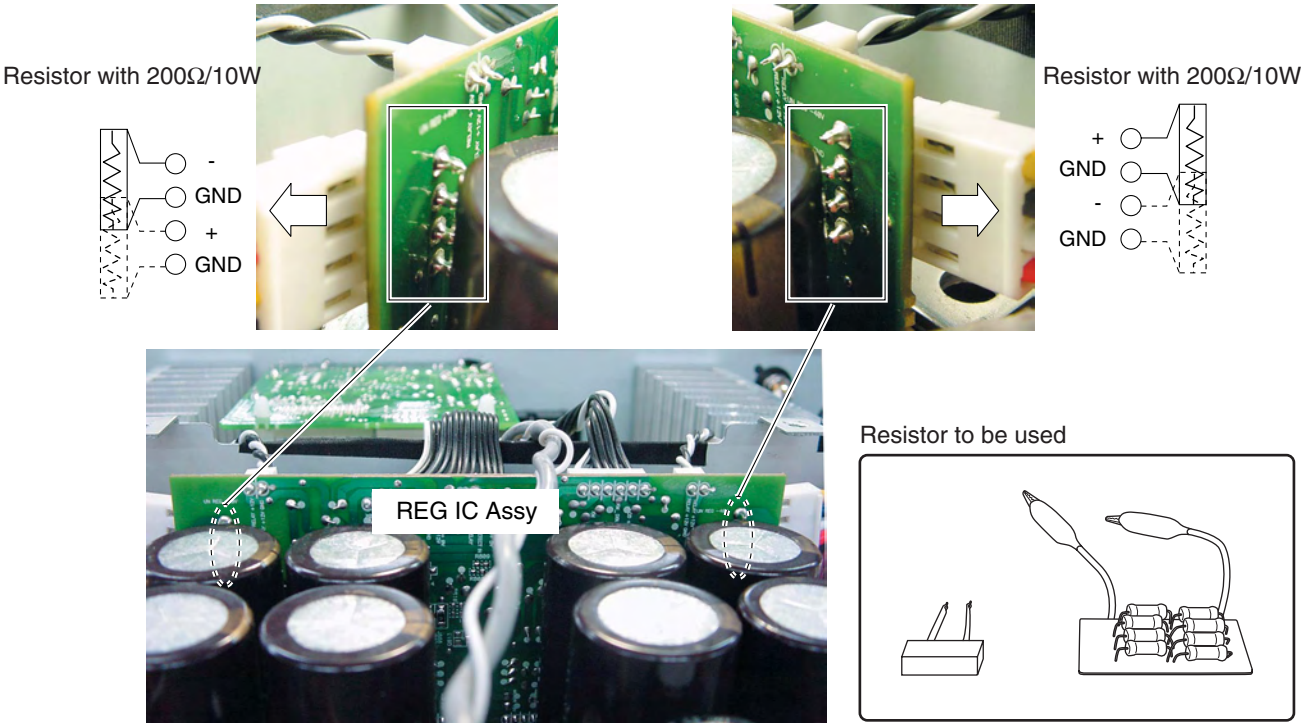
*When SPEAKER OUT is overloaded, turn off SPEAKER RELAY immediately and turn off power supply RELAY. Then, blinks the STAND BY LED.

*When DC voltage is detected at SPEAKER OUT, turn off SPEAKER RELAY and power supply RELAY. Then, blinks the STAND BY LED.

After that, normal operation MODE will be resumed by turning power supply SW off/on.
Similarly, normal operation MODE will be resumed by reconnecting the power cord.

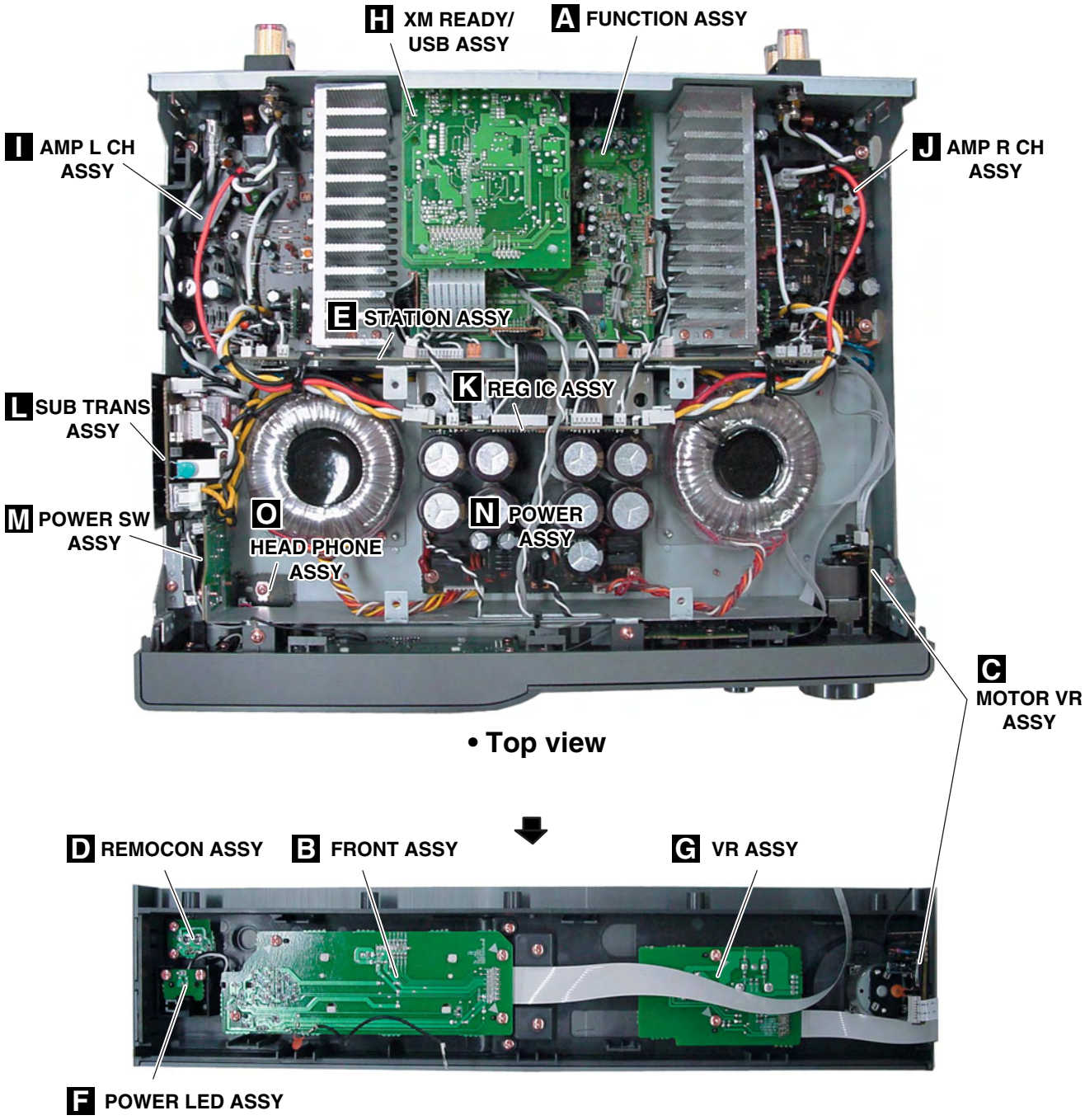
7.3 DISCHARGE OF POWER AMPLIFIER

1. Turn off the power of the product.
2. Discharge both ends of capacitor of Power Assy by short-circuiting (connector GND and +, connector GND and -) using a resistor with 200Ω/10W (and above) for 30 seconds.



7.4 PCB LOCATION

• A-A9 model



• Top view

• Front view

7.5 DISASSEMBLY

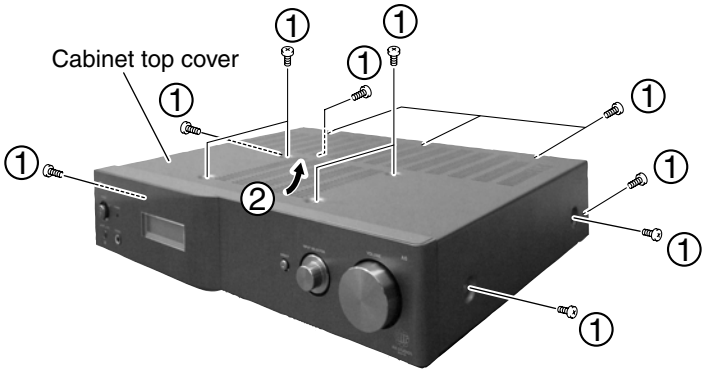
Note : Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Disassembly

• A-A6 model

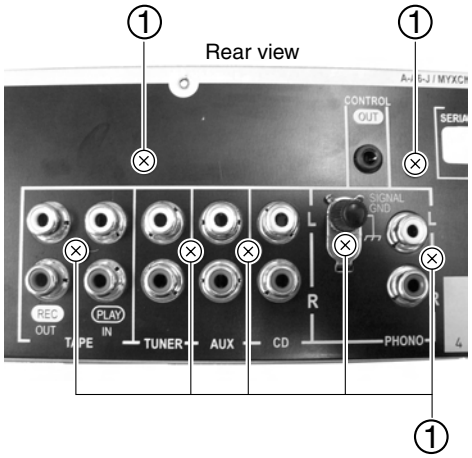
1 Cabinet top cover

① Remove 13 screws.
② Remove the cabinet top cover.

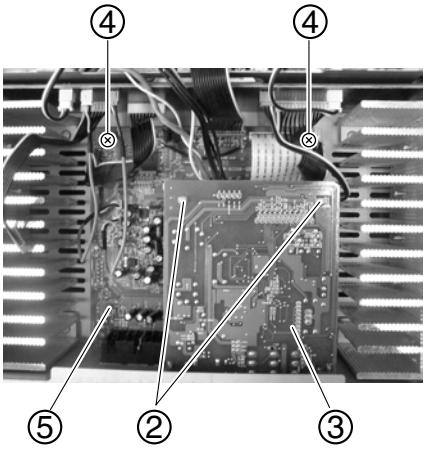


2 FUNCTION Ass'y

① Remove 7 screws.

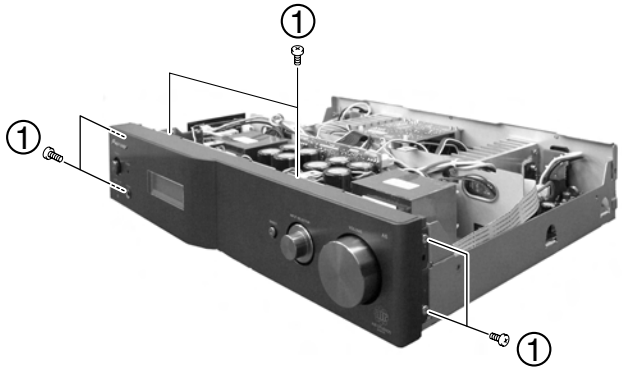


② Remove spacers (2 locations) on the board.
③ Remove XM-READY/USB Assy.
④ Remove 2 screws.
⑤ Remove FUNCTION Assy.



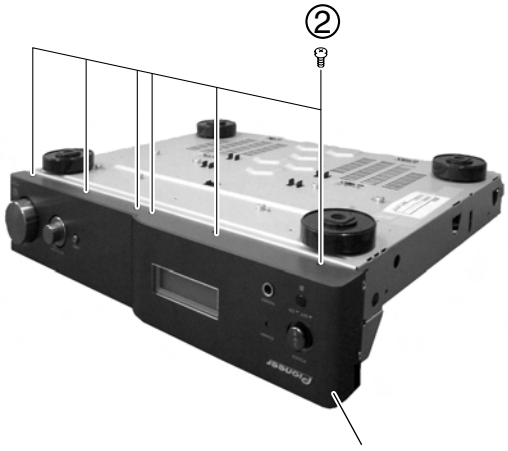
3 Front Panel

① Remove the 6 screws.



② Remove the 6 screws.

③ Remove the front panel section.



Note : Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

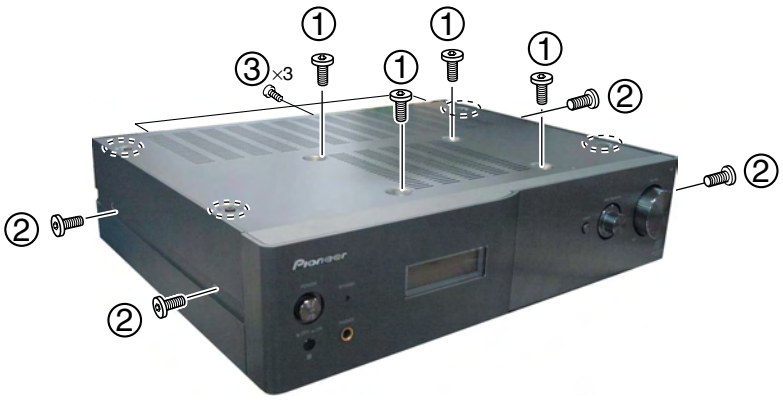
Disassembly

• A-A9 model

1 Cabinet top cover

① Remove 4 screws.
② Remove 4 screws. (Left, Right)
③ Remove 4 screws. (Rear section)

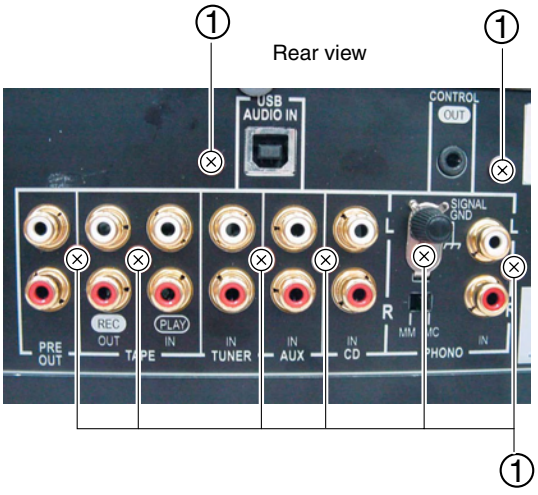
Note:
Even if the portion of the round (◌) mark does not remove the screw, the cabinet top cover separates.

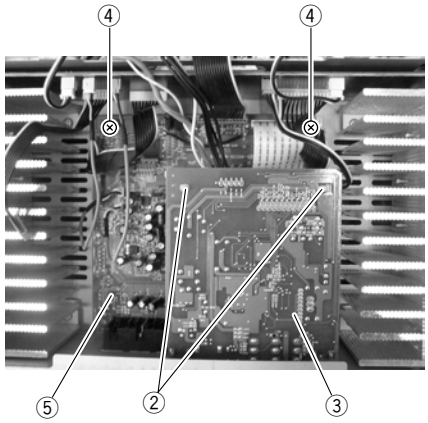


2 FUNCTION Ass'y

① Remove 8 screws.

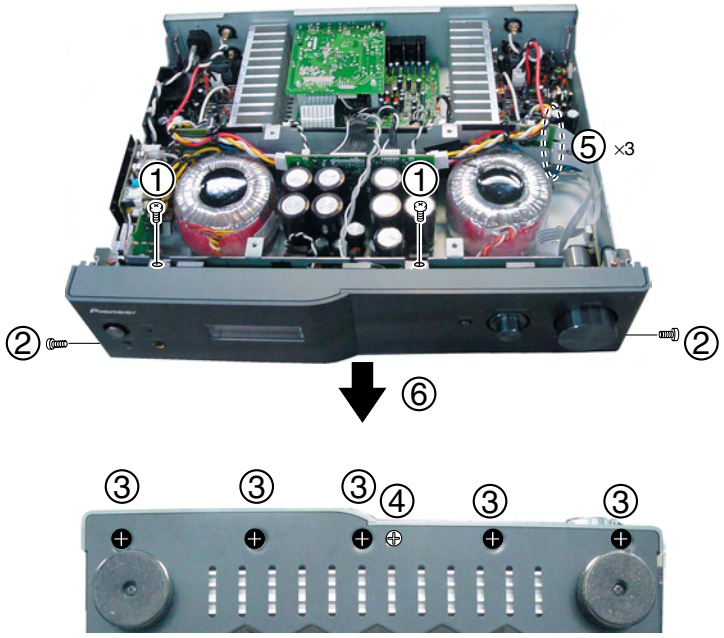
② Remove spacers (2 locations) on the board.
③ Remove XM-READY/USB Assy.
④ Remove 2 screws.
⑤ Remove FUNCTION Assy.





3 Front Panel

① Remove the 2 screws.
② Remove the 2 screws. (Left, Right)
③ Remove the 5 screws. (Botoom side)
④ Remove the 1 screws. (Botoom side)
⑤ Remove the flexible cable.
⑥ Remove the Front panel.



● **Bottom view**

7.6 IC INFORMATION

The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

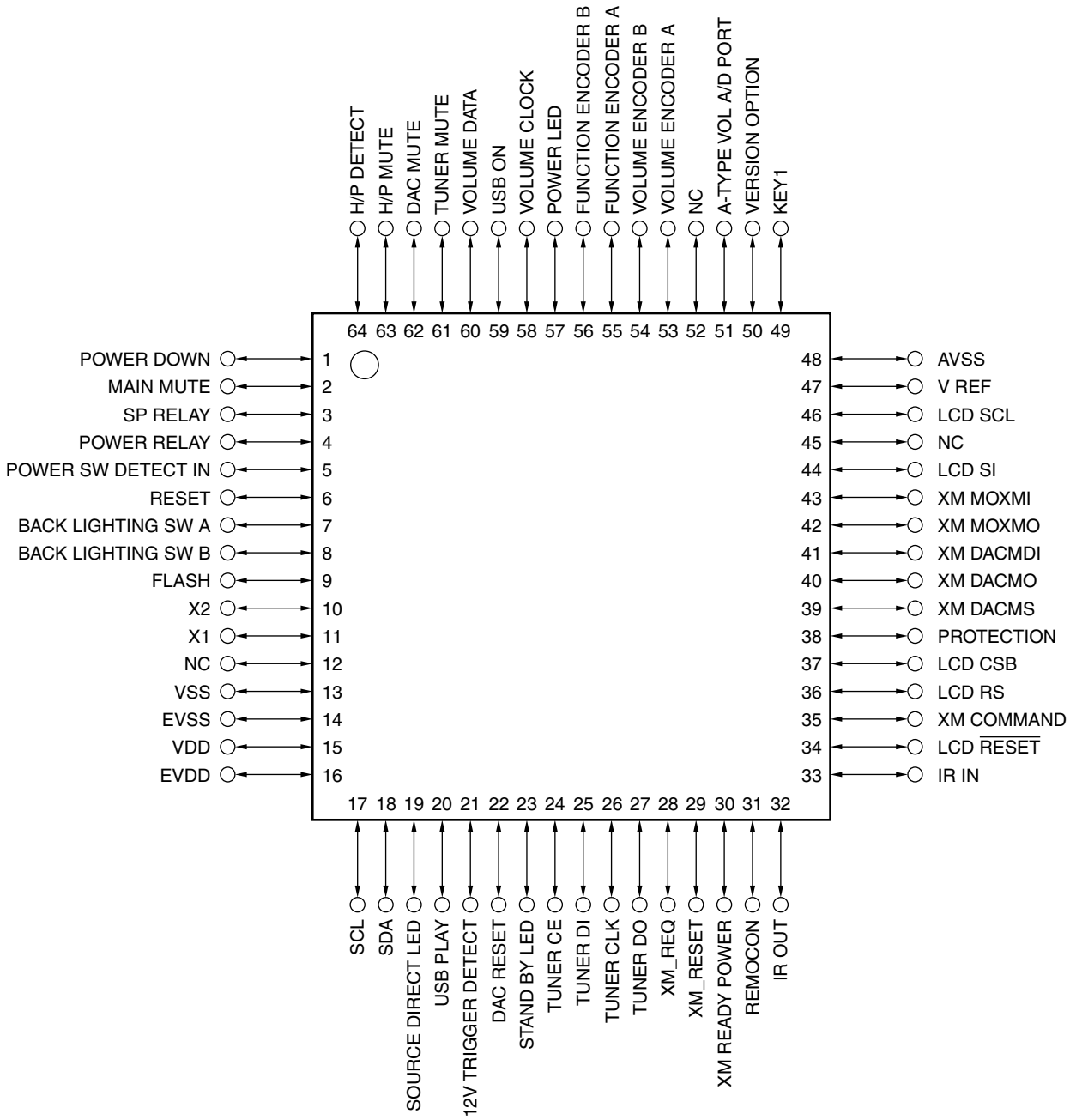
• List of IC

J020780536000-IL

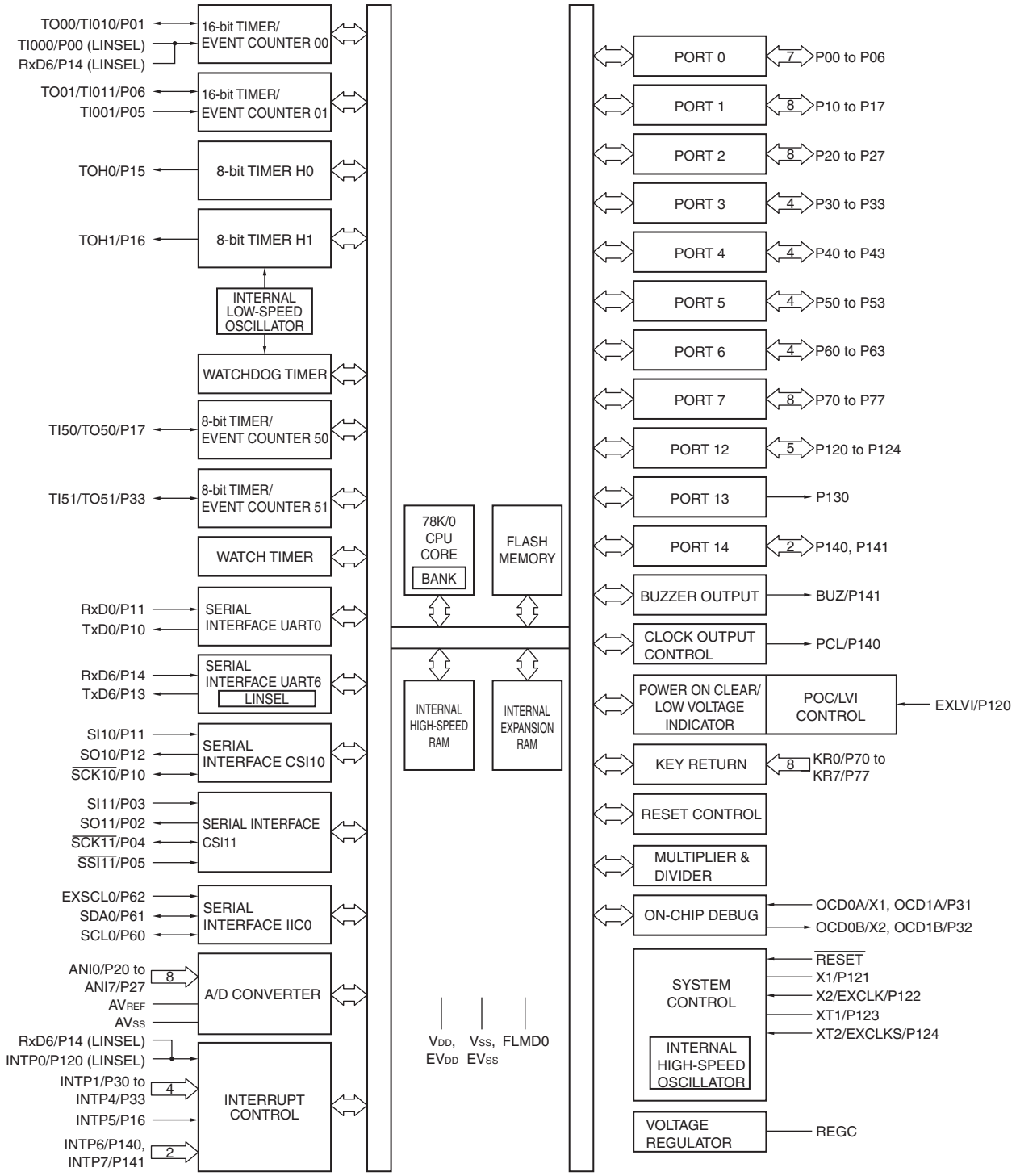
■ J020780536000-IL (FUNCTION ASSY : IC102)

• Main Microcomputer

● Pin Arrangement (Top View)



● Block Diagram



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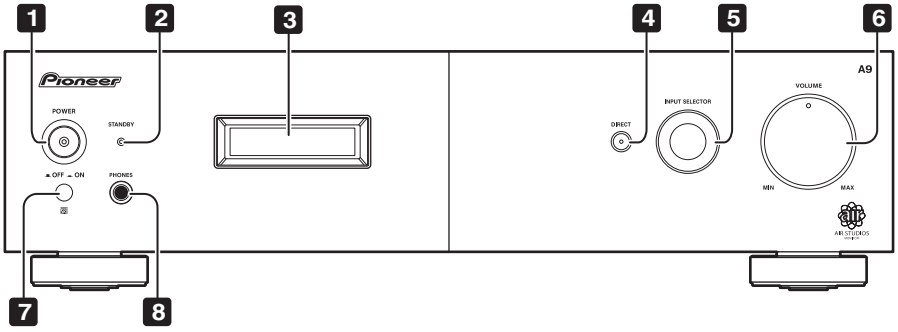
● Pin Function

No.	Port	Pin Name
1	P120/INTP0/EXLVI	POWER DOWN
2	P43	MAIN MUTE
3	P42	SP RELAY
4	P41	POWER RELAY
5	P40	POWER SW DETECT IN
6	RESET	RESET
7	P124/XT2/EXCLKS	BACK LIGHTING SW A
8	P123/XT1	BACK LIGHTING SW B
9	FLMD0	FLASH
10	P122/X2/EXCLK/OCD0B	X2
11	P121/X1/OCD0A	X1
12	REGC	NC
13	V_{SS}	VSS
14	EV_{SS}	EVSS
15	V_{DD}	VDD
16	EV_{DD}	EVDD
17	P60/SCL0	SCL
18	P61/SDA0	SDA
19	P62/EXSCL0	SOURCE DIRECT LED
20	P63	USB PLAY
21	P33/TI51/TO51/INTP4	12V TRIGGER DETECT
22	P77/KR7	DAC RESET
23	P76/KR6	STAND BY LED
24	P75/KR5	TUNER CE
25	P74/KR4	TUNER DI
26	P73/KR3	TUNER CLK
27	P72/KR2	TUNER DO
28	P71/KR1	XM_REQ
29	P70/KR0	XM_RESET
30	P06/TO01/TI011	XM READY POWER
31	P05/SSI11/TI001	REMOCON
32	P32/INTP3/OCD1B	IR OUT
33	P31/INTP2/OCD1A	IR IN
34	P50	LCD RESET
35	P51	XM COMMAND
36	P52	LCD RS
37	P53	LCD CSB
38	P30/INTP1	PROTECTION
39	P17/TI50/TO50	XM DACMS
40	P16/TOH1/INTP5	XM DACMO
41	P15/TOH0	XM DACMDI
42	P14/RxD6	XM MOXMO
43	P13/TxD6	XM MOXMI
44	P12/SO10	LCD SI
45	P11/SI10/RxD0	NC
46	P10/SCK10/TxD0	LCD SCL
47	AV_{REF}	V REF
48	AV_{SS}	AVSS

No.	Port	Pin Name
49	P27/ANI7	KEY1
50	P26/ANI6	VERSION OPTION
51	P25/ANI5	A-TYPE VOL A/D PORT
52	P24/ANI4	NC
53	P23/ANI3	VOLUME ENCODER A
54	P22/ANI2	VOLUME ENCODER B
55	P21/ANI1	FUNCTION ENCODER A
56	P20/ANI0	FUNCTION ENCODER B
57	P130	POWER LED
58	P04/SCK11	VOLUME CLOCK
59	P03/SI11	USB ON
60	P02/SO11	VOLUME DATA
61	P01/TI010/TO00	TUNER MUTE
62	P00/TI000	DAC MUTE
63	P141/BUZ/INTP7	H/P MUTE
64	P140/PCL/INTP6	H/P DETECT

8. PANEL FACILITIES

Front panel



1 POWER ▟OFF ▁ON

2 Standby indicator

3 Character display

4 DIRECT
Press to switch the Direct listening feature on or off.

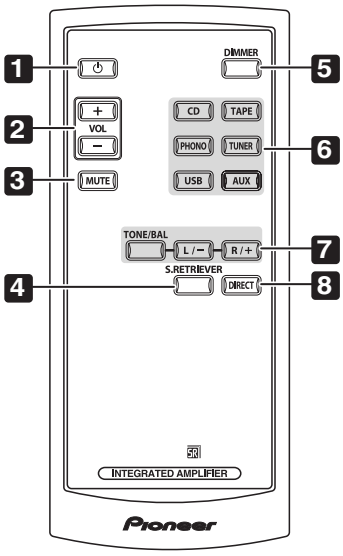
5 INPUT SELECTOR dial
Selects an input source.

6 MASTER VOLUME

7 Remote sensor

8 PHONES jack
Use to connect headphones (when connected, there is no sound output from speakers).

Remote control



1 ⏻
Switches the amplifier between standby and on.

2 VOLUME +/-
Use to set the listening volume.

3 MUTE
Mutes/unmutes the sound

4 S. RETRIEVER (A9 Only)
Press to switch the Sound Retriever on/off

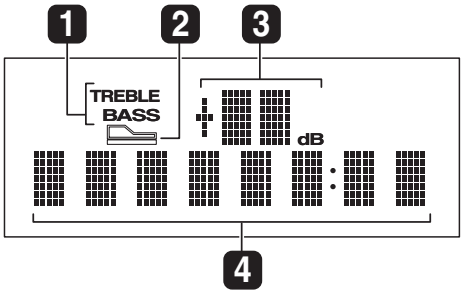
5 DIMMER
Dims or brightens the display (or switches the backlight off).

6 Input selector buttons
Press to select an input source. There select the component connected to the corresponding input on the rear panel.

7 TONE/BAL controls
Use to adjust the tone and balance.

8 DIRECT
Press to access Direct listening.

Display



1 Tone control indicators
TREBLE - Lights when high-range tone adjustment is applied.
BASS - Lights when low-range tone adjustment is applied.

2 Sound Retriever indicator
Lights when the Sound Retriever function is enabled.

3 Master volume level

4 Character display
Displays various system information.